

CATALOG

2020
2021



100 College Avenue
Sterling, CO 80751
970-521-6600

NJC.edu

Northeastern Junior College

2020-2021

Catalog

100 College Avenue
Sterling, Colorado 80751-2399
970-521-6600
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ACCREDITATION: Northeastern is accredited by The Higher Learning Commission and a member of the North Central Association. All programs are approved by the Colorado State Board for Community Colleges and Occupational Education. Associate degree and certificate programs are also approved by the Colorado Commission on Higher Education.

The Higher Learning Commission
230 South LaSalle Street, Suite 7-500
Chicago, IL 60604-1413
(800) 621-7440



President Jay Lee
Direct Line (970) 521-6607
Toll Free 1-800-626-4637
Fax (970) 522-4945
www.njc.edu
Email: jay.lee@njc.edu

2020-2021

As I prepare this letter for the 2020-2021 Northeastern Junior College catalog, the college is essentially under a suspension of major services due to the coronavirus pandemic. The outbreak had a significant impact on Northeastern and all institutions of higher education. Northeastern weathered the storm and anxiety of the virus and has emerged well prepared for a successful 2020-2021 academic year full of energy, excitement, enthusiasm and outstanding education.

If you are reading this letter and this catalog it probably means you are either a student of the college or a person thinking about joining Northeastern. To those of you who are students and you have already registered for classes (and are part of our Northeastern family), you have made a great educational decision. Of course, I fully acknowledge that I'm biased! Having been the president of Northeastern for more than eight years, I'm very familiar with all of the many great things we do at Northeastern. First and foremost, Northeastern has wonderful employees that care about you as a person, as a student and as a future graduate. They want you to succeed—not just at Northeastern, but in your life following your graduation from Northeastern.

If you are still considering your college selection, I hope you will give this document a serious review. I'm confident you will discover that Northeastern has wonderful academic programs that provide smooth transfer to universities, outstanding career and technical education programs that will prepare you for a successful career and gainful employment, and an active and engaging student life experiences that include athletics, music, theater and vibrant residence life activities. This catalog is just one source of great information about what you can expect as a Northeastern student. I encourage you to connect with any Northeastern employee to learn as much as you can about this college. All of us are here to help you learn more about Northeastern and about our collective devotion to your success.

Northeastern strives to earn your respect and your devotion because we know that by doing so, we will have the chance to serve you in the best ways possible.

Welcome to Northeastern, how can I serve you?

Jay A. Lee, President

Northeastern Junior College

MISSION, VISION, PHILOSOPHY

MISSION

Northeastern Junior College is committed to developing excellence in our students by instilling knowledge, advancing skills and providing opportunities to transfer and enter the workforce successfully.

VISION

To be Colorado's premier two-year college of choice.

PHILOSOPHY

Northeastern believes the student is the most important person on campus.

DISCLAIMER: Northeastern reserves the right to change, without prior notice, the procedures and policies outlined in this catalog, and to revise college curricula, as may be necessary and desirable. Specifics of enrollment, program/course design, graduation requirements, scholarship awards, residency, tuition and fees, and other matters are subject to change after publication of this catalog. Please check the Northeastern website for periodic updates and most current information at <http://www.njc.edu>.

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General Information

COMMITMENT TO DIVERSITY

Our Commitment to Diversity - Northeastern works to foster a multicultural environment. We believe that a diverse college population provides all students opportunity to learn from a wide variety of people. This diversity adds an important and valuable dimension to the college experience that helps students succeed in the larger world.

Policy of Non-discrimination/accommodations-Northeastern is an equal opportunity education institution and does not discriminate on the basis of race, color, national or ethnic origin, religion, age, gender or sexual orientation. Our programs, activities and employment are in accordance with the Civil Rights Act of 1964, Title IX of the Educational Amendments, Section 504 of the Rehabilitation Act, and the Americans with Disabilities Act of 1990.

Reasonable accommodations will be provided upon request for persons with disabilities. If you are a person with a disability who requires an accommodation to participate in college programs, services or activities, please contact the Director of the Monahan Learning Center at 970-521-6619.

The College takes a leadership role in demonstrating the productivity of a thriving multi-cultural society and actively engages in a policy of nondiscrimination. Northeastern acts vigorously to address acts of discrimination and promotes equal opportunity and treatment.

GOALS

- Provide excellence in learning and teaching for transfer, career, technical education, and personal enrichment.

- Enhance student success and retention by providing comprehensive support services and activities.

- Offer student's opportunities to become well-rounded individuals, embrace diversity, and develop leadership skills.

- Provide leading technology for instruction and operations.

- Attract and retain quality employees and provide for their professional growth.

- Acquire, maintain, and improve college resources and facilities to provide an aesthetic and efficient collegiate environment.

- Assess institutional effectiveness, strive for continuous improvement, and operate with integrity and accountability.

- Promote the college in a way that enhances enrollment and builds relationships with alumni and donors.

- Develop relationships and partnerships that enrich the region and contribute cultural, economic, educational, and social experiences for our students and citizens.

HISTORY OF THE COLLEGE

Northeastern Junior College is a two-year public community college and became one of 14 community colleges in the Colorado Community College and Occupational Education System in July 1997. Northeastern is located at the north edge of Sterling, the Logan County seat, 125 miles northeast of Denver on Interstate Highway 76, U.S. Highways 6 and 138, and Colorado Highway 14.

Sterling is a city of approximately 14,000 residents, characterized by strong business, cultural, and professional interests. Anchoring a plains area, which is primarily agricultural, it provides a trade, education, and health center for a population of more than 50,000.

Major resources include extensive cattle and wheat operations and both dryland and irrigated farming with some production from shallow oil deposits. Sterling also hosts the largest institution operated by the Colorado Department of Corrections.

The history of Northeastern is detailed in challenges, which individuals accepted singly, and in groups to provide this opportunity for continuing education. The college opened in the spring of 1941 because of joint planning and activity by educational leaders and interested citizens.

Formal history began when five members of District No. 12 Board of Education and the Logan County High School Committee filed articles of incorporation as private citizens. At an organizational meeting on May 8, 1941, they selected the following members of the Board of Regents:

C. Reeder Phillips, President; Bailey S. Jamison, Vice-President; Dr. James H. Jackson, Secretary; Harold R. Whyman, Treasurer; and H. B. Swedlund, member.

Planners had the benefit of a careful study of junior colleges in Colorado and adjoining states and the strong support of representatives of communities from throughout northeast Colorado, publicly expressed at a mass meeting held in March 1941. Sixty students from 17 northeastern Colorado communities enrolled on September 8, 1941, when first classes opened as an extension of the public school system. In 1941, before the first classes began, the college received assurances from four-year institutions of higher learning in Colorado guaranteeing transfer of credits.

A continuing interest has reinforced the values of continuity and initiative as the college has grown. In October 1944, voters of Logan County approved tax support and a junior college district, co-extensive with Logan County, was organized under Colorado law providing for the establishment of junior colleges. The Board of Regents became the Junior College Committee and shortly thereafter, the name of the school became Sterling Junior College.

In 1945, the College Committee purchased a separate 15-acre parcel anchored by the building previously known as Smith Hall, was demolished in 1997. Subsequent land additions have brought the total main campus to 25 acres. A 34-acre north campus addition acquired in December 1961 is available for further development of the physical plant. In the fall of 1999, the college acquired an Ag farm for instructional and lab purposes.

Names of two facilities recognize the early and continued contribution of Superintendent of Schools Robert R. Knowles and Principal Charles F.

Poole. As Chief Administrative Officer, Mr. Poole served as dean until the College Committee changed the title to president in 1947. When Poole resigned in 1948, Ervin S. French joined the staff as dean; the title changed to president when the college administration separated from the public school system in 1953.

In 1950, the name of the college changed from Sterling Junior College to Northeastern to reflect a larger area of service. Since that time there has been continuing close association with the home community. The years have brought further expansion of the service area, increasing state aid and other sources of financial support.

In 1963, after noting the expanded geographical area to which students transfer, Northeastern filed a comprehensive faculty self-study report as an application for accreditation within North Central Association of Colleges and Schools. Membership, with accreditation as a two-year college, occurred April 7, 1964. Northeastern has offered terminal and vocational programs from its beginning and in recent years has received regional and national acclaim for piloting new career and technical programs and for inviting industry to cooperate with public school superintendents for occupational programs at both the secondary and post-secondary levels on campus or in outlying communities.

In November 1996, the voters of Logan County voted to terminate the Logan County tax levy for the college incrementally over three years, thus paving the way for entry into the State System of Community Colleges on July 1, 1997.

Purchased in 2019, the Yuma Campus opened in January 2020 and is committed to providing post-secondary education opportunities to residents of Yuma, CO, and surrounding communities. The addition of this campus enables residents to complete their high school education with a GED, take courses to learn English as a second language, and deliver transferable credit-bearing courses in a variety of subjects. Students can attend certain courses taught on the main Sterling campus via a virtual classroom. For more information, visit <https://www.Northeastern.edu/yuma-campus>.

DEGREES

Associate of Arts (A.A.) or Associate of Science (A.S.)

University Transfer Programs

Agriculture Business - *Degree with Designation*
 Agricultural Education - *Degree with Designation*
 Animal Science - *Degree with Designation*
 Anthropology - *Degree with Designation*
 Art
 Art History - *Degree with Designation*
 Astronomy
 Biology - *Degree with Designation*
 Brewing and Distillery Science
 Business - *Degree with Designation*
 Chemistry - *Degree with Designation*
 Communication - *Degree with Designation*
 Criminal Justice - *Degree with Designation*
 Early Childhood Education - *Degree with Designation*
 Economics - *Degree with Designation*
 Elementary Education - *Degree with Designation*
 English - *Degree with Designation*
 Environmental Science
 Equine Science – *Degree with Designation*
 Forensics
 Geography - *Degree with Designation*
 Geology - *Degree with Designation*
 Health and Exercise Science - *Degree with Designation*
 History - *Degree with Designation*
 Horticulture Business Management - *Degree with Designation*
 Journalism/Advertising
 Liberal Arts
 Mathematics - *Degree with Designation*
 Microbiology
 Music - *Degree with Designation*
 Natural Resources Management
 Nutrition/Dietetics
 Philosophy - *Degree with Designation*
 Physics - *Degree with Designation*
 Political Science - *Degree with Designation*
 Pre-Professional:
 Pre-Audiology
 Pre-Chiropractic
 Pre-Dental Hygiene
 Pre-Dentistry
 Pre-Engineering - *Statewide Transfer Agreement*
 Pre-Forestry
 Pre-Law
 Pre-Medical Technology
 Pre-Medicine
 Pre-Mortuary Science
 Pre-Nursing
 Pre-Occupational Therapy
 Pre-Optometry
 Pre-Pharmacy
 Pre-Physical Therapy
 Pre-Radiologic Technology/Sonography
 Pre-Respiratory Therapy
 Pre-Speech Pathology
 Pre-Surgery Technology

Pre-Veterinary Medicine

Psychology - B. A. - *Degree with Designation*

Psychology - B. S. - *Degree with Designation*

Public Health

Recreation

Science-General

Sociology - *Degree with Designation*

Soils & Crop Science - *Degree with Designation*

Special Education

Sport Management

Sports Medicine/Athletic Training

Studio Art - *Degree with Designation*

Theatre - *Degree with Designation*

Wildlife Biology

Zoology

Associate of General Studies (A.G.S.)

University Transfer Programs

Agriculture:

Agriculture Business

Agriculture Education

Agriculture Journalism/Communications

Animal/Equine Science – Industry Concentration

Animal/Equine Science – Science Concentration

Range Management

Soil & Crop Science

General Studies

Science

Associate of Applied Science (A.A.S.)

Agribusiness

Agriculture: Production Agriculture

Applied Management

Applied Technology

Automotive Technology

Business:

Accounting

Management

Diesel Technology

Early Childhood Education

Emergency Medical Services

Equine Business Management

Equine Management

Fire Science Technology

Nursing

Welding Technology

Wind Energy Technology

CERTIFICATE PROGRAMS

Agribusiness

Agriculture Business Management

Records & Business Planning

Financial Analysis

Commodity Marketing

Market Plan Development

Advanced Agribusiness Management

Integrated Management

Profit Maximization

Agriculture Production Agriculture

Automotive Diesel Master Technician

Automotive Technology

Automotive Maintenance & Inspection

Automotive Brake Systems

Manual Powertrains & Clutches

Automotive Heating & Air Conditioning

Automotive Engine

Automotive Transmission Service

Automotive Electrical

Automotive Steering & Suspension

Automotive Drivability & Emissions

Business

Accounting Clerk I

Accounting Clerk II

Business Administration

Business Management

Foundations of Business I

Foundations of Business II

Basic Tax Preparation

Cosmetology

Diesel Technology

H/D Brakes

Diesel Electrical

H/D Steering & Suspension

Diesel HVAC

Diesel Engines

Hydraulics

H/D Powertrains

Early Childhood Education

Director

Group Leader

Nanny

Emergency Medical Technician

Basic

Intermediate

Equine Business Management

Equine Management - Training

Fire Science

Firefighter I

Firefighter Instructor

Forensic Psychology

Industrial Maintenance (Also listed under Wind Energy Technology)

Industrial Motor Controls (Also listed under Wind Energy Technology)

Nursing Assistant

Practical Nursing

Welding Technology

Welding Fabricator

Oxy-Fuel

Shielded Metal Arc (SMAW)

Gas Metal Arc (GMAW)

Flux Cored Arc (FCAW)

Gas Tungsten Arc (GTAW)

Wind Energy Technician

Industrial Maintenance

Industrial Motor Control

Wind Technician Core

BUILDINGS

Our campus buildings reflect the continuous growth of Northeastern. The main campus is complimented by the nearby Applied Technical Campus. Landscaping, parking facilities, campus lighting, and well-kept streets and sidewalks enhance the campus. The names of several buildings honor persons significantly identified with college history.

Walker Hall, which houses administrative offices, honors James H. Walker, a member of the college committee from 1950 until 1962.

Phillips-Whyman Hall, a classroom and lab facility, honors C. Reeder Phillips and Harold R. Whyman, both founding incorporators and past board presidents.

Beede-Hamil Hall houses agricultural programs and recognizes former college committee members Armory E. Beede and David A. Hamil.

Lebsack/Schmidt Hall, completed in 1976 on the Applied Technology Campus, houses the secondary and postsecondary automotive and diesel technology programs. The building honors former board members Clarence Lebsack and Ellis Schmidt.

The **Hays Student Center** named in memory of longtime Dean of Instruction Zane R. Hays, is an activities and services center for students featuring the college bookstore, student government offices, a large ballroom, the Tennant Center of Western Art, recreation space, activities room used by the college and community, and Student Services offices.

The **Cosmetology Building** supports classroom instruction and practical training in the cosmetology career program.

The **E.S. French Hall** named for long-time president Ervin S. French, features the Corsberg Theatre, named in honor of veteran instructor and Humanities Chair Dorothy Corsberg. Its 509 theatre seats, a multi-purpose stage, and workshop rooms, complement other classrooms serving a variety of college academic and career programs. French Hall underwent a complete renovation in 2014-2015.

The **Area Vocational Building** on the **Applied Technology Campus**, houses the Wind Technology programs, postsecondary career and technical programs. This building houses the Ag Mechanics and some Precision Ag courses.

The **Welding Shop**, the first building on the Applied Technology Campus, completed in 1969. It originally housed the Farm Machinery Mechanics Program and now serves the welding program. The Welding program will be moving to the area Vocational Building.

“Chuck Wagon” Cafeteria, adjacent to the Student Center, contains three adjustable-space dining/meeting rooms in addition to the large cafeteria.

Knowles Hall is a former dormitory renovated and expanded in 1992. It houses the Monahan Learning Center, and Library named for board member and benefactor Rex Monahan, Fire Science and EMS Programs, as well as some athletic coach’s offices are located here.

Six Residence Halls, at Colorado’s largest residential two- year campus offer housing to 578 students. Residence halls of various size and age offer campus living for men and women with a variety of options including single rooms, double rooms, three person apartments, as well as two and four-person suites. Some buildings have unique features such as housing of honors students, private restrooms, air conditioning, and gender by wing. Please inquire for details through the college’s housing office.

Bank of Colorado Event Center opened October 1998. The \$7 million Bank of Colorado Event Center located on the Northeastern campus stands where Jackson Hall previously stood. The almost 60,000 square-foot facility is home to the Plainsmen and Plainwomen varsity athletic teams. This state-of-the art facility includes the 2,000-seat Jackson & Edwards Arena, two wellness centers, two additional full-sized basketball courts, a walking/ jogging track, locker rooms, a training room, athletic offices, a ticket office, and large lobby with concession center.

Yuma campus opened January 2020 to serve Yuma and area residents.

Adult and Community Education Center/ACE, formerly the Northeastern Child Development Center and Early Learners, Inc. remodeled in 2008 and houses the Adult Basic Education, GED, ESL, and Family Literacy programs.

ADMISSION INFORMATION

Admission Classification: As an open enrollment institution all students who are 17 years of age or older may enroll in degree credit courses. However, based on individual credentials, students are classified as either “regular” or “special” students.

Regular Classification includes graduates of accredited high schools or applicants who hold a General Equivalency Diploma (GED). They may enroll with a part-time or full-time credit load. The college prefers students submit ACT or SAT scores at the time of application.

Concurrent Enrollment Classification students are those students who are taking classes for both high school and college credit. This includes concurrent enrollment classes offered at their local high school and classes students may take on the Northeastern campus. To be a concurrent enrollment student, students must work with their local high school and receive their permission for the courses prior to enrolling in a class. High school students who enroll in Northeastern courses without permission from their local high school will be charged for the class and any associated fees.

Special Classification includes non-high school graduates, students graduating from non-accredited high schools, students who have not attained a GED, those who have completed a home school program, or those who are under 17 years of age. Students may enroll with a part-time or full-time credit load.

Students from home school programs and non-accredited high schools who are over the age of 17 are initially enrolled as “special” students. Home-based education received prior to application to Northeastern must be compliant with C.R.S. 22-33-104.5. A student may be completing one or more semesters with satisfactory academic performance. Home schooled students may advance to “regular” status by obtaining passing scores on the Ability to Benefit test (Accuplacer).

Students younger than 17 years of age who seek admission must obtain an underage waiver form in order to enroll in credit classes. Admission to the college does not guarantee a student admission to a specific program. In addition to general admission requirements, each student must provide evidence of adequate background to successfully pursue the program in which he/she wishes to enroll. Admission to one program does not automatically satisfy entrance requirements for other courses of study. Professional counselors and academic advisors are available to assist students in this evaluation process prior to selection of a program or transfer from one program to another.

APPLYING FOR ADMISSION

Each student desiring admission to Northeastern must present to the Office of Admission the following materials prior to the date stipulated on the college calendar for submission of credentials:

1. Application for admission to Colorado Collegiate Institutions or the application to Northeastern properly completed by the applicant. Students may also apply online at www.njc.edu. There is no application fee.
2. Immunization - Colorado law requires college students born since January 1, 1957, to be immunized against measles, mumps, and rubella. All students, including graduate students, must show proof of immunity if they attend a college or university with on-campus housing.

For all public or nonpublic post-secondary education institutions in Colorado the state law requires that each incoming freshman student residing in student housing, as defined by the institution, or any student who the institution requires to complete and return a standard certificate indicating immunizations received by the student as a requirement for residing in student housing, be provided with information on meningococcal disease. If the student is under the age of 18 years, the student’s parent or guardian provides this information.

Each institution must require each new student who has not received a vaccination against meningococcal disease, or if the new student is under the age of 18 years, the student’s parent or guardian, to check a box and sign to indicate that the signer has reviewed information on meningococcal disease and has decided that the new student will not obtain a vaccination against meningococcal disease.

3. Official high school transcript showing date of graduation and signed by the high school principal, college counselor, or super intendent of schools. GED graduates must submit proof of successful GED test completion.

4. College transcripts - Transfer students must submit current, official transcripts of all previous college attendance. Transfer students must also submit high school transcripts. This includes responsibility for requesting and authorizing officials of the high school(s) or college(s) previously attended by applicant to send transcripts. Determine your math and English skill level. Submit college ready ACT/SAT, Accuplacer, or GED scores to take your college placement test at the Northeastern Testing Center.

INTERNATIONAL STUDENT ADMISSION POLICY

Northeastern welcomes international students and recognizes the value they add to the learning environment. The policy applies to non-immigrant, international students seeking admission to the college on a F1 student visa.

Definitions

F1 Visa: The legal document issues to a non-immigrant student pursuing a full-time program of academic study to achieve a specific education, or professional objective at an academic institution in the United States that has been designated by the Department of Homeland Security to offer courses of student to such students and has been enrolled in the Student and Exchange Visitor Information System.

International Students: Non-immigrants coming temporarily to the United States to attend school. The applicant must plan to pursue full-time academic study at an academic institution authorized by the USCIS to enroll foreign students.

Non-immigrant: Citizen of another country and not a U.S. Citizen, defined by the Immigration and Nationality Act as an alien, residing in the United States on either a temporary or a permanent basis. Non-immigrants may be in this country legally, i.e., with official documentation of legal authorization to reside here; or illegally, i.e., without official documentation of legal authorization to reside here.

ADMISSION CLASSIFICATION

Northeastern Junior College classifies students by the following categories:

Freshman: a student who has earned fewer than 30 academic semester credit hours.

Sophomore: a student who has earned 30 or more academic semester credit hours.

STUDENT CLASSIFICATION

Full-time student: a student registered for 12 or more credit hours of college work per semester.

Part-time student: a student registered for under 12 credit hours of college work per semester.

TUITION/FEE STATUS

Tuition and fees are determined by the number of college credits for which a student registers and the residential tuition classification of the student. The most current fee schedule is available at www.njc.edu/admissions/cost.html

RESIDENTIAL TUITION CLASSIFICATION

Colorado state tuition classification is governed by state law (Colorado Revised Statutes §23-7-101, et seq., 1998) and by judicial decisions that apply to all public institutions of higher education in Colorado. The Director of Admission is the College's Tuition Classification Officer (TCO). The tuition classification officer (TCO) makes the determination of residency status for tuition purposes as prescribed by Colorado State law. Complete tuition classification guidelines can be located on the Colorado Commission on Higher Education website: www.state.co.us/cche.

In-state status for tuition purposes requires domicile (legal, primary residence) of a qualified person in Colorado for the year preceding the first day of class. Domicile is defined as your true, fixed and permanent home and place of habitation.

To be considered a qualified person for tuition classification by the State of Colorado, you must be at least 22 years of age, married, emancipated, have a dependent, or be a graduate student to begin your one-year domiciliary period. If you are not a qualified person, your residency for tuition classification will be determined by your parent or legal guardian's domicile. A person 23 years of age or older who has resided outside Colorado and has established a residency outside the state cannot, merely by attending an institution of higher learning in Colorado, establish a residency within the state.

To meet the legal residency requirements, the student, or their guardian if under 23, must have resided in Colorado for one year. A minor student whose parents change their residency from Colorado to a location outside of Colorado shall be considered a resident for one year from the date of the parents' removal from the county or state.

The tuition classification officer can answer questions about residency. Opinions of other persons are neither official nor binding.

CAMPUS VISITS

Visiting campus is a crucial step in choosing a college and to determine if a college is the right fit for you.

The Office of Admission at Northeastern invites you to plan a campus visit. Attending a Discovery Day allows students to visit with other students, meet with faculty, tour campus, have lunch in the cafeteria, and experience the life of a college student. Plan to visit on a Discovery Days or allow us to tailor a personalized campus experience just for you. Scheduling an individual campus visit will also allow you to tour campus, visit faculty, and learn about becoming a successful student at Northeastern!

To schedule a campus visit, or to find out more information regarding **Discovery Days**, contact the Office of Admission at (970) 521-7000.

ADMISSION OF TRANSFER STUDENTS

Any applicant for admission who has attended another college or university must submit his/her previous collegiate record (from ALL other colleges attended) and apply for admission to Northeastern as a first-time freshman.

A student who wishes to transfer to Northeastern from another college may do so provided he/she has an acceptable academic and financial aid record from the previous institution(s) and is a student in good standing at the college from which he/she wishes to transfer. Such students will be admitted to advanced standing on the basis of their records.

Students on academic probation from another institution of college rank will be considered for admission on the basis of a number of factors: the high school record, the college record, scores for the American College Test (ACT), or the Scholastic Aptitude Test (SAT) (if applicable), and a personal interview with the Vice President of Student Services, if requested.

TRANSFER OF CREDITS INTO NORTHEASTERN

The college accepts all undergraduate college credits transferred from other regionally accredited institutions of higher education. Transfer credit shall be accepted at Northeastern with an academic/university transfer and/or career/technical designation. When a question exists as to course equivalency or designation, a request will be made for description of that course from the transfer college or school from which the course was taken.

Transfer courses from regionally accredited institutions of higher education from regionally accredited post-secondary programs include: Emily Griffith Opportunity School, Delta- Montrose Area Vocational School, Pickens Area Vocational School, and San Juan Basin Technical College and from area vocational schools that correspond to equivalent Northeastern, university transfer, or career/technical designated courses shall be accepted at face value (in semester credit hours). These transfer credits will be used to fulfill as many course/[Program Requirements](#) as possible. Courses for which there are no equivalencies will be treated as electives.

Only transfer credits with passing grades of A, B, C, S (satisfactory), or P (pass) will be evaluated and applied to transcripts. Courses with a "D" grade will be accepted and applied to transcripts on a case-by-case basis. Students wishing to have a course with a "D" grade accepted must go to the Student Records Office and fill out the appropriate form. Transfer credits and grades will not be used in calculating a Northeastern cumulative GPA.

All lower division undergraduate credit hours awarded within the prior ten years will apply towards the completion of the graduation requirements. Credits more than ten years old will receive careful consideration. The Registrar, in conjunction with the department chair of the respective academic divisions, reserves the right to examine any course more than ten years old to determine their currency and applicability to existing curriculum and programming before credit is accepted. If a course is denied, an appeal process exists by contacting the Records Office.

International Credit Transfer Information

Non-U.S. transcripts must go through an evaluation service in order to be considered for transfer or to waive prerequisites. Northeastern accepts evaluations through any NACES member organization. These organizations can be found listed at <http://naces.org/members.html>. It is up to the student to select an appropriate evaluation service and to pay the fees associated with that evaluation.

Costs will vary by service and type of evaluation offered.

Northeastern (Northeastern) requires a **course-by-course** or **detailed** evaluation. Credit recommendations do not guarantee acceptance of credits by Northeastern. Official evaluations can be mailed directly to:

Northeastern Junior College
Records Office
100 College Avenue
Sterling, CO 80751

If transcripts are being delivered in person, they must still be in the sealed envelope from the evaluation service.

TRANSFER OF DEGREE TO ALL COLORADO PUBLIC FOUR-YEAR COLLEGES & UNIVERSITIES

Colorado's agreement between public colleges and universities guarantees that when you complete your AA or AS degree with a "C" grade or better in every course-you can transfer to any Baccalaureate Liberal Arts and Sciences major (e.g., English, history, mathematics) and graduate after earning an additional 60 credit hours.

While you are guaranteed not to have to take more than 60 credit hours to graduate, to finish within two years depends on the number of credits you take each semester at the four-year institution, the course sequencing in your major (e.g., some upper-division major courses require that you complete lower-division major courses) and course availability.

This agreement does not apply to business, teacher education, engineering, or nursing as all these have statewide articulations that have specific lower division requirements. Save time by seeing your advisor at your earliest opportunity for the "transfer guides," many of which can also be found online.

In addition to showing you which lower division courses are required for articulated programs such as business, these guides will tell you which lower division courses will be best suited for your intended major and you can be sure to complete the pre-requisites for sequenced coursework before transferring to a four-year college. The AA and AS transfer agreement applies to courses completed at a Colorado community college. Credit earned for prior learning, Advanced Placement, correspondence courses, CLEP, and other tested-only credit may not apply. The institution to which you transfer will evaluate these credits according to its own policies. For a copy of the Colorado Commission Transfer Policy, go to www.cccs.edu or <http://higher.ed.colorado.gov>.

SUMMER SCHOOL ADMISSION

Provisional admission may be granted on the basis of transcript through the first semester of the senior year to permit an applicant to register for the summer semester immediately following high school graduation. Completion of work in the summer term under such provisional admission, however, does not automatically qualify the student for subsequent enrollment. All admission requirements, including a complete high school transcript, must be met before full admission status is granted.

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Northeastern welcomes international students and recognizes the value they add to the learning environment. This policy applies to non-immigrant, international students seeking admission to the college on a F1 student visa.

Admission Criteria

Admission of international students will be considered and a Form I-20 will be issued when the following are received on record and evaluated as acceptable.

Student must provide the following documents and fulfill the following requirements. Please note that fall semester applications and all supporting documents are requested to be on file by July 15. Spring semester applications and supporting documents are requested to be on file by December 15.

- Apply for admission to Northeastern at **www.njc.edu**. The application must indicate in which semester the student will begin.
- Provide additional and complete transcripts of all previous secondary and collegiate academic work with certified English translations (if needed).
- Provide evidence of proficiency in English language.
- Note: No documentation is required if student's native language is English or student graduated from an American high school.
- If student's native language is other than English, student must provide one of the following:

For FULL ADMITTANCE:

- Test of English as a Foreign Language (TOEFL): minimum score 65; or
- International English Language Testing System (IELTS): minimum score of 6.5.
- Student enrolls directly into a college degree program and carries a full-time credit load (12-15 credits) of credit bearing courses including the First Year Seminar.

- Student arrives on campus and reports to DSO for updates and confirmation in SEVIS.
- Student completes an orientation and registration for the degree program.

For CONDITIONAL ADMITTANCE:

- Test of English as a Foreign Language (TOEFL): minimum score 52-64; or
- International English Language Testing System (IELTS): minimum score 5.5-6.4; and
- Student is admitted into the SEVIS certified English Pathway program, which allows for limited ESL assistance including ESL 054 (five credits) and an additional 7-10 credits of college-level courses including the First Year Seminar.
- Statement of financial support for a two-year program of student at Northeastern. Federal/state financial aid and tax-supported scholarships are not available for international students.
- Record of immunizations.
- Proof of medical insurance. All international students are required to have medical insurance in place while attending Northeastern.
- Payment of outstanding tuition and fees on the day of registration. Failure to comply may result in withdrawal of the student's U.S. Immigration I-20. Other potential English proficiency assessments may be evaluated for admittance, including:
 - Michigan Test of English Language Proficiency: minimum score of 75.
 - Completion of Level 5 Advanced or Level 109 from an Intensive English Language Center.
 - Completion of the STEP examination in Japan with a LEVEL II evaluation or above.
 - Graduation from an American high school after attending for at least two years or one year and meets assessment test requirements.
 - Special admission waiver approved by the president of the college.

The final steps for F1 Visa completion include:

- The Designated School Officer (DSO) creates a file in SEVIS (or previous college transfers information in SEVIS) to print a Form I-20. Northeastern's International Student Coordinator serves as the Designated School Officer.
- The DSO signs and sends student the original Form I-20.
- Student pays SEVIS I-901 fee at www.ice.gov/sevis.
- Student makes an appointment with the U.S. Embassy or Consulate to interview for an F1 visa.
- Consular reviews application, confirms SEVIS fee payment, runs security check, interviews student, and potentially grants visa.
- Student obtains the visa prior to departure to U.S.
- Student arrives in U.S. with passport, visa and Form I-20, then receives I-94 stamp at point of entry.

STUDENT ACCOUNT INFORMATION**GENERAL**

Completed payment of financial obligations to the college is required at the time of registration. Registration, thus enrollment, is not complete unless the financial obligation is satisfied. Students with any outstanding financial debt to the college will not receive official transcripts of credits earned and a student officially withdrawing from college must resolve outstanding financial obligations to the college.

TUITION

The State Board for Community Colleges and Occupational Education approves tuition rates annually and students are billed according to their residency status. The number of college credits for which a student registers and the residential classification of the student determine tuition. A student who carries twelve credits or more qualifies as a full-time student. A student who carries fewer than twelve credit hours is considered a part-time student.

WESTERN UNDERGRADUATE EXCHANGE (WUE)

Students attending Northeastern from states participating in the WUE program will be charged a reduced out-of-state tuition rate of 150% of in-state tuition. Only students from the following states may qualify: Alaska, Arizona, California, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, Wyoming, and Commonwealth of Northern Marianas Islands. For more information, please contact the Northeastern Office of Admission.

FEES

The State Board for Community Colleges and Occupational Education approves fees for full-time and part-time students. A registration fee is charged for all students each semester of enrollment. A technology fee and a fee to cover bond indebtedness are charged on the basis of the number of credits in which a student is enrolled. In addition, all full-time students pay fees to support the Health Center, the Associated Student Government (ASG) operations and activities, and the Event Center. Various courses have fees related to the course as indicated in the term schedules. Selected career and technical programs such as cosmetology, automotive technology, and nursing programs require special equipment or materials. The State Board has approved a Student Fee Plan detailing the student participation in the annual fee revision.

REFUNDS AND RETURNS

If a student officially drops a class or withdraws from College before the census date (the last day to drop a class for a term) a refund of 100% of tuition and fees will be made. There will be no refund of tuition and fees after that date.

If a student withdraws from residence facilities, the room and board charges will be refunded on a per day basis through 87.5% of the term.

If the student had Title IV federal financial aid, a portion of these grants or loans must be returned to the programs based on the date the student withdrew from college.

If the withdrawal occurs after sixty percent (60%) of the term is completed, no return of these federal funds will be required.

In order to calculate the amount to be returned, the withdrawal date must be determined.

This will be the date the student began the withdrawal process as prescribed by Northeastern or otherwise provided Northeastern with official notification of intent to withdraw. If the student drops without any of the above notification, the midpoint of the term will be used as the withdrawal date. If the withdrawal process was not begun because of illness, accident, grievous personal loss, or similar circumstances beyond the student's control, Northeastern will determine the appropriate withdrawal date.

The amount of the unearned institutional charges and unearned Title IV funds based on the number of days in attendance to the withdrawal date will be calculated. Northeastern will then return to the Title IV programs the lesser of the unearned institutional charges or the unearned Title IV assistance.

The student will return any remaining unearned Title IV funds. (If the student needs to return funds to Pell or SEOG programs based on the return priority, he/she need return no more than fifty percent [50%] of the calculated amount.) The loan amounts the student needs to return will be repaid according to the regular payment schedule for the loan.

The college refund to the loan account will be credited to the original loan amount. The amount a student needs to return to grants will be collected from the student by the college and then repaid to the grant program.

The order of return of Title IV funds will be as follows:

- Unsubsidized Stafford Loans
- Subsidized Stafford Loans
- Plus Loans
- Federal Pell Grants
- Federal SEOG Federal LEAP

In order for Northeastern to return the federal funds as calculated, Northeastern may refund unearned money to the student account.

In making this refund, one of the following two situations will apply:

If the refund made for late start classes, other special terms and (or) from unearned room and board is greater than the amount of the federal awards, Northeastern needs to return some of the funds according to the calculation the process ends and the returns are made.

If the amount of any scheduled refund is less than the calculated amount of the return of federal funds to be made by Northeastern, then the college will refund to the student account the additional funds needed to equal this return amount and then complete the return process.

In times of national or state emergency, certain students (e.g. reserve military units, National Guard, individuals with specialized skills, firefighters) are called to provide services to the country.

When the call for service or a national emergency is issued, it is often necessary for students to interrupt their coursework in mid-term. In these situations, the refund policy may be altered in keeping with the best financial interest of the student. Refunds for unearned room and board will be made on a per day basis as indicated above. Tuition refunds will be made on a pro-rata basis even after the census date.

INDEBTEDNESS POLICY

No student who has a prior unsettled indebtedness to the college will be allowed to register for any new semester. During the period in which the indebtedness remains, requests to verify attendance or other requests for official college records will not be honored.

Indebtedness shall include tuition and fees, room and board charges, and any other financial holds placed on the student's record showing a balance owed to the college. Degrees and certificates will not be granted, nor will transcripts of credits be transferred to other colleges or employers until all accounts are paid.

ROOM AND BOARD COSTS

Room and board expenses are approved annually by the State Board for Community Colleges and Occupational Education. For current rates, contact the Office of Admission, Housing Office, Business Office, or see our web site.

<http://www.njc.edu/admissions/housing-costs.html>.

All fees, tuition, room and board charges effective at the printing of this catalog are subject to change by the State Board.

Financial Aid & Scholarships

FINANCIAL AID INFORMATION

The Office of Financial Aid counsels students and/or parents and administers funds that are designed to assist students in meeting their educational expenses. Northeastern participates in grant, work-study, loan programs and scholarships. Funding sources for these programs include federal, state, institutional, and private sources. Information regarding financial aid programs may be obtained in the Northeastern Financial Aid Office. We will make every effort to help students plan a program in financing their college education which may involve drawing on a number of aid sources.

APPLICATION PROCEDURE

Priority for determining financial aid eligibility is given to those students whose completed applications are on file in the Financial Aid Office by March 1st.

1. Submit an Application for Admission to Northeastern. Financial aid awards are only for students who have been accepted for admission and are in an eligible degree and/or certificate program. Not all degree and/or certificate programs offered by Northeastern are eligible for financial aid.
2. Submit a Free Application for Federal Student Aid (FAFSA). The application is available on the U.S. Department of Education's website at www.fafsa.gov.
 - i. There is a priority date for completing the FAFSA for certain available funds. Students with completed applications are on file in the Financial Aid Office by March 1st will be considered first for those funds.
 - ii. A new application must be submitted for each succeeding year.
3. Financial aid applications will be accepted at any time during the year. However, funding sources may be limited past the priority date of submission.
4. Submit all requested documentation to the Financial Aid Office as soon as possible. Awards will not be made until supporting documentation is complete.
5. Award notifications for the fall semester are generally sent starting after March 1st and continue throughout the year.

ELIGIBILITY CRITERIA

To qualify for need-determined assistance the student must meet the following criteria:

1. Be accepted in an eligible degree and/or certificate program.
2. Be a citizen or permanent resident of the United States.
3. Be registered with Selective Service (if required).

4. Have a high school diploma, passed the General Equivalency Diploma (GED), or demonstrated the Federal Ability to Benefit test.
5. Not owe a refund on a Federal Grant or be in default on a Federal Student Loan.
6. Making satisfactory academic progress.
7. Apply in a timely manner and submit all documentation and/or information needed to the Financial Aid Office to make a determination of eligibility.

REGISTRATION COMPLIANCE

Section 1113 of the Department of Defense Authorization Act of 1983, Pub. L 97-252 provides that any student who is required to register with the Selective Service and those who fail to do so are ineligible for student financial aid under Title IV or the Higher Education Act of 1965.

FINANCIAL AID SATISFACTORY PROGRESS POLICY

Each institution that receives Title IV funds is required by the U.S. Department of Education, Section 132 of the Higher Education Amendments of 1976, to define and enforce standards for satisfactory academic progress. Satisfactory Academic Progress measures a student's performance in the following three areas/criteria: completion rate, grade point average (GPA), and maximum timeframe. The Financial Aid Office is responsible for establishing and monitoring a standard of "satisfactory academic progress" for continuation of financial aid eligibility. In order to be eligible to receive financial aid (federal and/or state and at times institutional aid), the student must be making satisfactory progress towards a certificate or degree as identified in the quantitative (the completion rate of credit hours attempted) and qualitative (the GPA) standards of the policy. Progress is reviewed at the time an application is processed (including Federal Pell, Federal Stafford, and Federal PLUS Loans if submitted separately) and at the end of each term. The maximum timeframe allowed for a student to complete his/her certificate and/or degree program is 150% of the number of credit hours required for the specific program. The standard of satisfactory academic progress must include a student's total academic history at Northeastern regardless of whether he/she has previously received financial assistance. A complete copy of the policy is available on the financial aid web site, www.njc.edu/financialaid.

FUNDING SOURCES

Grants

1. **Federal Pell Grants.** The Federal Pell Grant is a federal aid program designed to provide financial assistance for postsecondary education. Awards are an amount determined by the Federal Government. Students must complete a FAFSA.
2. **Federal Supplemental Educational Opportunity Grants (FSEOG).** A federal grant designed to provide assistance to documented exceptionally needy students to help pay for postsecondary education. Awards must not exceed \$4000. Students must complete a FAFSA.
3. **Colorado Student Grants.** The Colorado Student Grant program is funded by the Colorado General Assembly and is to provide assistance to qualified undergraduate students with documented financial need at state institutions of higher education. Award limitations are set by the Colorado Department of Higher Education. Students must be a Colorado resident and complete a FAFSA.
4. **Colorado Merit Scholarship.** This scholarship is funded by the State of Colorado General Assembly so you must be a Colorado Resident and meet the individual criteria outlined on the scholarship application.

Work-Study

1. **Federal Work-Study:** Federally funded work programs with a portion of the funds contributed by the college. Awards are made only to students who have a documented financial need. Students must complete a FAFSA.
2. **Colorado Work-Study:** Funding by the Colorado General Assembly for an employment program awarded to Colorado residents with documented financial need. A wide variety of positions are available on campus. Students must complete a FAFSA.
3. **Colorado No-Need Work-Study:** Funding by the Colorado General Assembly for an employment program awarded to a limited number of Colorado residents without documented financial need. Students must complete a FAFSA.

Loans

1. **Federal Direct Subsidized Stafford Loan:** These are low interest loans that are based on documented financial need. With the William D. Ford Direct Lending Program, the loan funds are delivered directly from the U. S. Department of Education. The federal government pays the interest while you are in school or during your grace period. Repayment begins six months after the student leaves school or is enrolled in less than six credit hours. Origination fees are deducted prior to disbursement of funds. Students must complete a FAFSA.
2. **Federal Direct Unsubsidized Stafford Loan:** These loans are not based on financial need. The borrower is responsible for the interest payments. With the William D. Ford Direct Lending Program, the loan funds are delivered directly from the U. S. Department of Education. Origination fees are deducted prior to disbursement of funds. Students must complete a FAFSA.

3. **Federal Direct Parent Loan for Undergraduate Students (PLUS):** Variable interest rate loan made to the student's parents for the student's educational expenses. This loan is based on a credit check. Amount is limited to the cost of educational expenses minus other aid. Origination fees are deducted prior to disbursement of funds. Repayment begins 30 days after the final disbursement. Applications are available on www.studentloans.gov, or you may contact the Financial Aid Office.

Scholarships

Scholarships are available from several sources and the criteria for those vary. Each scholarship is awarded under provisions of the specific grant.

The majority of Northeastern scholarships require some type of application. For a complete description of all Northeastern Scholarships and appropriate application procedures, please visit the website at www.njc.edu. The following is a brief list of scholarship funding sources available:

1. Northeastern Foundation Scholarships
2. Northeastern Institutional Scholarships
3. Community Scholarships awarded by Northeastern
4. Colorado Merit Scholarship

Summer Aid

Funding for summer generally consists of unused academic year Federal Pell Grant, Federal Direct Stafford Loan, Unsubsidized Federal Direct Stafford Loan, or PLUS Loan eligibility.

If you are interested in Summer aid contact the Financial Aid Office for a summer aid application during spring term.

Department of Veteran Affairs

The Financial Aid Office works with the Veterans Administration to assist in administering provision of the various programs of benefit to veterans or eligible relatives of veterans under benefits of Chapter 31, 32, 35, 1606, 1607, Chapter Montgomery GI Bill, Post 9/11 GI Bill (Chapter 33 of Title 38, United States Code). The Financial Aid Office certifies enrollment and transmits necessary credentials and information to the proper Veterans Administration Office.

Title 38 United States Code Section 3679(e) School Compliance Form

School Name: _____

As part of the Veterans Benefits and Transition Act of 2018, section 3679 of title 38, United States Code was amended, and educational institutions will be required to sign this compliance form to confirm your compliance with the requirements as outlined.

Effective August 1, 2019, the State Approving Agency, or the Secretary when acting in the role of the State Approving Agency, shall disapprove a course of education provided by an educational institution that has in effect a policy that is inconsistent with the areas below:

NOTE: A *Covered Individual* is any individual who is entitled to educational assistance under chapter 31, Vocational Rehabilitation and Employment, or chapter 33, Post-9/11 GI Bill® benefits.

- Your policy must permit any covered individual to attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 (a “certificate of eligibility” can also include a “Statement of Benefits” obtained from the Department of Veterans Affairs’ (VA) website – eBenefits, or a VAF 28-1905 form for chapter 31 authorization purposes) and ending on the earlier of the following dates:

1. The date on which payment from VA is made to the institution.
2. 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.
 - Your policy must ensure that your educational institution will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual’s inability to meet his or her financial obligations to the institution due to the delayed disbursement funding from VA under chapter 31 or 33.

Your signature on this document attests that your facility currently complies with the requirements of 38 USC 3679(e), or will comply by the effective date of August 1, 2019.

Please ensure that policies in the next publication of your catalog, bulletin, or addendum align with all of the above requirements.

Prime Time Learner (Senior Adult) Institutional Grant

Senior adults are classified as individuals over the age of 60 at the time a class begins. These students may enroll in courses and receive a scholarship equal to 50 percent of the current per credit tuition rate. Scholarships will only be given if the course has room to accommodate extra students on a space available basis. Enrollees must also qualify for the COF stipend and utilize those funds for courses. Scholarship forms and additional information is available through the Office of Financial Aid.

Additional Information

Detailed information about financial aid grants, work-study, loans or scholarships, application processes and procedures, rules and regulations governing the various programs, payment procedures, and cost of attending Northeastern are available in the Financial Aid Office, Hays Student Center, Room 102, or by visiting www.njc.edu or by calling (970) 521-6800 or 1-800-626-4637, Ext. 6800.

Academic Information

DEGREES AND CERTIFICATES

Northeastern offers programs leading to the Associate of Arts Degree, Associate of Science Degree, Associate of General Studies Degree, Associate of Applied Science Degree, and certificates for Career and Technical Education Programs. All degrees and certificates require a minimum 2.00 cumulative grade point average (GPA) to be awarded.

Graduation requirements for degrees and certificates vary according to program objectives and content. Variation in requirements is given in the following pages. Interpretations of general and specific requirements are available to each student through his/her faculty advisor. Students who expect to transfer will have help in selecting appropriate college/university transfer courses.

A student who wishes to change his/her degree program while enrolled at Northeastern should ask for an evaluation of his/her transcript.

ACADEMIC INFORMATION STUDENTS RESPONSIBILITIES & EXPECTATIONS

All students enrolled for any credit course are responsible for knowing of the information appearing in this College Catalog and any updates of costs, course revisions, curriculum changes, and published course schedules. All students are responsible for knowledge of the policies and procedures in the Student Handbook.

The Student Handbook contains all general student policies and the basic residence hall rules and procedures. The college reserves the right to change procedures and policies in the Catalog and the Student Handbook as deemed necessary and revise the college curricula as may be necessary and desirable.

All students registered for any courses at Northeastern accept a commitment to seriousness of purpose, academic integrity, and high standards of personal and social behavior. Students are expected to be cooperative and responsive members of the college community and the city of Sterling, comply willingly with college regulations, and abide by all local, State, and federal laws. All students have the right to due process and the right to file grievances. The college has the right to restrict, evict, suspend, and dismiss any student whose academic achievement and personal conduct does not meet the standards set forth in the College Catalog and the Student Handbook.

In accordance with the regulations and procedures assuring due process, the College Hearing Board may dismiss any student whose conduct does not meet the standards of the college as set forth in the Student Code of Conduct.

ACADEMIC ADVISOR

An Academic Advisor will help you:

- Create an academic plan and choose the correct courses.
- Find the degree or certificate program that matches your goals.
- Understand the registration process
- Discover the right transfer options and institutions to meet your needs.
- Access resources on campus that will help you succeed in the classroom.
- Identify your strengths and challenges to maximize your goals.
- Provide accurate and timely information

You are responsible for making the decisions that help you achieve your career and academic goals. Your Academic Advisor is here to support you along the way.

ASSESSMENT AND PLACEMENT FOR SUCCESS

In accordance with Colorado State Board Policy, if you are entering college for the first time, you are required provide indication of college readiness via placement test scores. These tests will help determine what college courses you will take based on your skill levels in English, reading and math.

College Ready Indicators:

- Student has prior college-level English and college-level math course work with a final grade of "C" or better.
- Student has valid (non-expired) college-level ACT, SAT, Accuplacer, CCPT, GED, HiSet, TASC, PARCC, SBAC, AP, IB, CLEP, DSST, PLA scores.
- Student has 3.0 high school GPA with "B" in Algebra II or Geometry (for CTE math, MAT 120, 135 & 155), "B" in Pre- Calculus (for MAT 121) within last 18 months.
- Student has 3.0 high school GPA with "B" in 11th grade English (for ENG 121) within last 2 years.
- Northeastern's Self-Directed Placement Testing.

REGISTRATION & STUDENT RECORDS INFORMATION

COURSE REGISTRATION

When students have completed the admission requirements, they are eligible to enroll at Northeastern. For your success we encourage you to meet with your Faculty Advisor or a Student Services Counselor in advance of the actual starting date.

Registration reserves space in classes and guarantees enrollment. The class schedule, published electronically each semester, provides critical information concerning each course: when and where the course meets, the instructor, and the cost. Class schedules and registration information are available on the Northeastern website at www.njc.edu.

Northeastern has two registration methods: In person or via the internet at www.njc.edu.

SEMESTER SYSTEM AND TERM DATES

Northeastern operates on the 15-16-week semester plus a three to four-day final exam schedule. In addition, the college offers intensive courses generally the two weeks prior to each term and summer: August term, January term, and May term. Students can select courses from one or more term combinations to reach optimum enrollment. The summer term is an integral part of the yearly calendar and designed to provide continuous educational opportunity. It provides additional opportunity for high school graduates to adjust to college level work in a relaxed summer environment.

TERM DATES

The start and end dates for the three terms are:

Fall Intercession: August 10 – August 21, 2020

Fall Full Term 2020: August 24 – December 18, 2020

Spring Intercession: January 4 – January 15, 2021

Spring Full Term 2021: January 19 – May 14, 2021

Summer Session (5 week): June 1 – July 2

Summer Session (5 week): June 1 – July 16

CREDIT HOUR LOAD

Course Load: The standard course load is 15 credits per semester. Students who carry fewer than 12 credits are part-time students. Students with 12 or more credits are considered a full-time student. The maximum student load is 18 credits unless an override has been granted. A student who desires to carry more than 18 credits in a given semester must have demonstrated the ability to do so. For many students an 18-semester hour course load will be an extremely heavy schedule. New students should consider taking a lighter load for the first semester. In unusual circumstances it may also appear necessary for a student to carry more than the normal course load. Permission to carry such a course load may be granted to individual students depending on the rigor of the course work and attendance.

Full-time career and technical students will normally register for the number of credits indicated for that semester in their [Program Requirements](#).

HOLDS

Academic and administrative offices can place holds on your registration, which prevents registering or changing your registration schedule. Holds are placed for a variety of reasons (academic, financial, etc.). Failure to meet a payment deadline will result in a financial hold which prevents schedule changes. Only the office that places the hold can remove the hold. If a hold was placed on your registration after you have registered your registration will not be automatically cancelled. However, you will not have registration access to adjust your schedule for subsequent terms until the holds are cleared.

REPEATING COURSES

The college recognizes the varied circumstances when a student requests to repeat a course, such as and not limited to, the following: unacceptable grade for transfer, a required course for graduation or transfer, and possibly a need to raise a low grade point average for graduation.

To understand how a repeat class could affect grade point average and overall transcript the student should consult an academic advisor before enrolling in the same class for a second time. 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. If the grade for the repeated course is the same as the original grade only the most recent grade will count in the GPA calculation. 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. To replace a grade, the course must be taken at Northeastern.

[Developmental courses](#) are eligible to be repeated. All developmental courses will appear on the transcript.

All enrolled courses will be listed on the student's transcript and none will be eliminated by future enrollments or course completions. Credit hours can only be earned once for any course. Any course beginning Fall Semester 1988 to the present can be repeated (no restrictions on the type of course or the previous grade) and only the highest grade will be used for computation of the grade point average. In the event of a duplicate grade being earned the most recent grade will be included in the term and cumulative GPA. All previous grades in a given course will also appear on the student's transcript. All other duplicate grades will be excluded from the term and cumulative GPA. Students should direct questions on repeating courses to an academic advisor, the Records Office, or the Student Success Center.

Note: Due to the logistics of the college conversion from quarters to semesters in the fall of 1988, the repeat policy is limited to those courses completed from the fall of 1988 to the present.

REPEAT COURSE LIMITS

The following guideline applies to all students taking credit bearing courses:

- Students will be limited in the number of times that they can take the same course.
- Certain courses are exempt from the repeat course procedure due to the nature/offering of the course.
- If a student has taken a course twice or more and attempts to register for the course an additional time, the student will not be able to register for that particular course until an action plan is created and approval has been granted by the department chair and course instructor. Please note that the student is able to register for other courses without needing an action plan or approval as per college rules and regulations.
- If the department chair does not feel that the registration is warranted, the student may appeal via the college's designated appeal policy.

COURSE SCHEDULE CHANGES

Students are encouraged to secure advisor approval for all schedule changes. Students can add a class up to 6% of the class, drop a class up to 15% of the class (census date), and withdraw from a class 15-80% of the class.

ADDING A CLASS

To register for class (add) students must complete an Add/Drop Registration Form and submit this completed form to any of the five registration sites listed in the Registration information. Students may add classes during the "add period" which is the first six percent (6%) of the specific course. This procedure can also be done via the student's "Access Northeastern" web page.

DROPPING A CLASS

Students may drop a class during the first fifteen percent (15%) of the course duration (census date) without being financially responsible for the class; the class will not appear on the student's permanent record. Specific drop deadlines for term classes are listed in the schedule of classes. Students who register and do not want to be held liable for tuition and fees and/or have a transcript record created must drop the class on or before **the last day for refund, census**.

Notifying the instructor, your advisor or simply not attending the class is not sufficient to ensure that you are dropped from the class. An official Add/Drop Registration form must be received with appropriate signatures within deadline. This procedure can also be done via the student's "Access Northeastern" web page.

DROP FOR NON-ATTENDANCE

It is the faculty member's responsibility to ensure that all students listed on their roster have attended their course during the Add/Drop (census) period. If a student has not attended any class by the end of the Add/Drop period, the faculty member must No-Show the student by the end of the Add/Drop period.

Students are expected to attend all classes. Students who do not attend any class sessions by the course census (add/drop date) will be identified as a no-show by the faculty and will be dropped from the course.

Once dropped as a no-show, a student cannot re-register in that same section, regardless of no-show reason. In addition, the student could be dropped from any prerequisite or co-requisite courses, regardless of attendance in prerequisite/co-requisite course(s). Being dropped as a no-show can have negative consequences for students using financial aid or Veteran's benefits. For online courses, attendance is defined as accessing the course and completing at least one academic activity (as determined by the individual faculty). What constitutes an academic activity may vary from course-to-course based on the uniqueness of each course. Instructors will inform students in their class of their individual attendance policies. Students who miss too many class sessions may be advised to withdraw from a course.

WITHDRAWAL FROM CLASS(ES)

Withdrawal from Class(es) - Any student may withdraw from any course(s) or the college without academic penalty anytime up to and including eighty percent (80%) of total class days. All courses withdrawn during this period will receive the grade "W."

Courses designated "W" will be recorded on the student's permanent record, but will not be used in the calculation of the student's semester or cumulative grade point average. After the dates for withdrawal without penalty specified above, the students may not withdraw from a course and "W" is no longer a grade option for the instructor.

A student initiates requests for withdrawal from a course by obtaining the appropriate withdrawal form from either the Records Office or an academic advisor. The student will then obtain the signatures of the instructor(s) and the advisor as a matter of information, indicating communication of the student's intent. Course withdrawals will not become valid until the student has returned the completed forms to the Records Office. Failure to complete the prescribed withdrawal procedure will result in receiving a grade in each course affected by withdrawal.

Note: Students are responsible for the full amount of tuition and fees for courses, which they are withdrawn from. Students can also withdraw from a class through Northeastern Access.

WITHDRAWAL FROM COLLEGE/ALL COURSES

Withdrawal from College/All Courses - A student who decides to withdraw from all enrolled courses must obtain the "Withdrawal from Northeastern - All Courses" form from the Vice President of Student Services Office. This form must be completed and returned with the current ID before withdrawal from college is official. A student should not initiate a total withdrawal from the college via Northeastern ACCESS (web-based student portal).

Student initiated total withdrawal from college can be completed up to and including the last date to withdraw from classes for the term.

As part of a total withdrawal from college, a student cannot withdraw from a class that has already given its final exam or has otherwise ended, such as A-term and non-standard term classes that have concluded.

The withdrawal code to be used by an instructor will be a "W" to show a termination of enrollment or an "I" for an incomplete, which allows the student to complete specific course requirements at a later date. Instructor and student must complete all required protocols before the instructor can assign a grade of incomplete. (See section 2.16 Inventory of Common Grading Symbols – I - Incomplete).

Note: In unusual circumstances (death, disability, and excessive absences) the Vice President of Student Services, the instructor of the course enrolled, or the academic advisor may initiate the "Withdrawal from Northeastern - All Courses" for a student. Procedures for withdrawing from the institution may be initiated only in the office of the Vice President of Student Services. Upon withdrawal from all classes, the student automatically severs the relationship with the college and is required to surrender his/her college identification card.

ACADEMIC RENEWAL

The Academic Renewal Policy allows former Northeastern students to apply for establishment of a new academic record. A student may be granted an "Academic Renewal" only once and if approved by the Academic Standards Committee and accepted by the student, the decision will be final.

Call 970-521-6659 for additional information and clarification on this procedure.

Eligibility

1. A student who has an academic record with courses older than two years from the current date is eligible for an Academic Renewal.
2. A student must have all financial holds cleared before a request can be honored.
3. Students can only apply for Academic Renewal once and it is not reversible.
4. A student must have completed at least six credit hours with 2.00 grade point average prior to an application for Academic Renewal.

Procedures

1. A student must submit a letter of request to Northeastern Academic Renewal.
2. The Records Office will check the student's transcript for eligibility and, if eligible, forward the request of eligible students to the Chair of the Academic Standards Committee for review.
3. The Academic Standards Committee will review and make recommendations for approval or denial prior to a semester pre-registration or registration period.
4. The Northeastern Records Office, after a thorough review of the student's transcript, will identify and recommend the appropriate academic term to declare an Academic Renewal.
5. The Records Office will compute an Academic Renewal GPA from the designated academic term and provide the student with an updated transcript.

Guidelines

1. The student's transcript will reflect the entire academic record and no classes will be deleted or removed. 30 hours can be excluded from GPA.
2. Only grades earned after the Academic Renewal will be used to compute the new cumulative GPA.
3. Courses with a C grade or better prior to the Academic Renewal may be applied toward graduation requirements.
4. Academic Renewal will not change Satisfactory Progress for Financial Aid eligibility and previous grades are subject to interpretation by specific Financial Aid Policy.

CONFIDENTIALITY OF STUDENT RECORDS

The college maintains an educational record and student service record for each student who is or has been enrolled at the college. In accordance with the Family Educational Rights and Privacy Act of 1974, as amended (hereafter "Act"), the following student rights are covered by the Act and afforded to all eligible students at the college:

1. The right to inspect and review information contained in the student's records.
2. The right to request amendment of the contents of the student's records believed to be inaccurate, misleading, or otherwise in violation of the student's privacy or rights.

3. The right to prevent disclosure without consent, with certain exceptions, of personally identifiable information from the student's records.
4. The right to secure a copy of the college's policy.
5. The right to file complaints with the U.S. Department of Education concerning alleged failures by the college to comply with the provisions of the Act.

Each of these rights, with any limitations or exceptions, is explained in the college's policy statement. A copy may be obtained in the Records Office.

Educational agencies – colleges – may disclose educational records to the parents of a dependent student without the student's consent. Post-secondary institutions may disclose, to parents and legal guardians of students under the age of 21, information regarding the student's violation of any Federal, State, or local law, or any rule or policy of the institution governing the use or possession of alcohol or a controlled substance (amended 6/99). The college is obligated to keep, within the student educational records, a "record of access" for all people and organizations that have been granted access to the student's records. This record of access is available only to approved and authorized people within and outside the institution.

The institution shall disclose to an alleged victim of a crime of violence or a non-forcible sex offense the final results of disciplinary proceedings conducted by the institution. The institution may disclose the results of a disciplinary hearing for such violations of the college's rules; disclosure is limited to the name of the violator, violation committed, and sanctions imposed. Names of other students and/or witnesses can only be released by written permission.

Disciplinary records may be released to other schools and school officials when those records contain information regarding conduct that posed significant risk to the safety of any student or members of the school community.

Northeastern may provide directory information in accordance with the provisions of the Act without consent of an eligible student unless the student initiates a written request to prevent disclosure of such information. The following information is designated as directory information and may be released concerning any student for any purpose at the discretion of the college unless a written request for nondisclosure is on file:

- Student name.
- Major field of study.
- Participation in officially recognized activities and sports and dates of attendance.
- Degrees and awards received.
- Most recent educational institution attended.
- Enrollment status (i.e. full-time, three-quarter-time, half-time, less than half-time, withdrawn, graduated, or deceased).
- Height, weight, and high school attended (only for students in officially recognized activities and sports).

Currently enrolled students may prohibit general disclosure of this directory information by notifying the Records Office in writing, specifying the categories to be withheld, within ten (10) calendar days after the first scheduled class day of each term.

The college will honor the request until the student notifies the Records Office in writing of intent to allow release of directory information. The student should carefully consider the consequences of any decision to withhold any category of directory information. Regardless of the effect upon the student, Northeastern assumes no liability that may arise out of its compliance with a request that such information be withheld. It is assumed that the failure on the part of the student to request the withholding of directory information indicates the student's consent to disclose.

Please refer any questions concerning the student's rights and responsibilities under the Family Educational Rights and Privacy Act to the Vice President of Student Services.

AUDITING CLASSES

Auditing means participation without evaluation or receipt of credit. An Audit/No Credit request form signed by the instructor must be submitted to the Records Office by the last day to register or add a course in any term.

Students electing the audit option will pay all required tuition and fees, meet all course requirements and receive the no credit grade of "AU". An audited class may be retaken at a later date for credit. The Colorado Opportunity Fund (COF) stipend cannot be used for audited classes.

The "AU" grade will continue to be included in the grading policy. Audit is a registration status in Banner. "AU" is automatically posted as the grade.

Students must choose the audit option by census date so that colleges can reconcile the COF file. The COF stipend cannot be used for "audit" courses. If students change to the audit status following initial enrollment they will be responsible for the entire in-state

tuition, not just the student portion.

Students should consider the S/U grading option rather than audit because the COF stipend will be eligible for S/U courses, but not for audit courses.

CANCELLATION OF CLASSES DUE TO LOW ENROLLMENT

The college may cancel classes due to insufficient enrollment or other extenuating circumstances. Students enrolled in cancelled classes will receive written notice of the cancellation. Refunds of tuition and fees charged for that class will be made by the college business office.

FACULTY AUTHORITY IN THE CLASSROOM

Northeastern students are expected to meet and exceed all standards of academic and personal commitment as determined by the instructor of each class. The faculty member sets the academic standards for each class taught and the student is expected to comply with the following standards of classroom conduct and academic experience.

DEMONSTRATED PREPARATION

All students should demonstrate the necessary preparation (academic background and assessments) before enrolling in any class or course of study.

CLASS ATTENDANCE

Students learn best with regular and consistent class attendance. Students are expected to attend all scheduled meetings of each course and the encouragement of regular class attendance remains with the instructor while the actual responsibility remains with the student. Students may be administratively withdrawn from a class for excessive absences. Each course syllabus provides information on course attendance. The following general attendance guidelines apply for all students and all classes.

ATTENDANCE GUIDELINES

1. Each class will have attendance procedures set forth by that instructor. Self-contained career and technical programs may develop program attendance procedures that apply to all courses in the program.
2. Specific procedures for class attendance and the effect that absences may have on daily assignments, make-up work, examinations, and/or course grades will be made available in written form and given to enrolled students during the first or second class meeting.
3. Class attendance procedures must be uniformly applied to all students enrolled in a course. Individual students should confer with instructors on personal and specific attendance concerns and conflicts. The determination and application of attendance guidelines is the responsibility of the faculty member.
4. Class attendance is the responsibility of the student. The student should communicate to each of his/her instructors regarding any attendance situation that may affect course assignments, exams, or grades.
5. Students serving on athletic or livestock judging teams or as members of an approved college club or extra-curricular activity, or students enrolled in a class that is missed for a field trip or college sponsored-performance, will be considered "excused" by all instructors for the duration of the travel. The college sponsor advisor- coach should communicate the students who will be participating. The students are representatives of the college in these approved instances.

It is the responsibility of the student to make faculty aware of upcoming "excused absences" for approved college activities and to assume responsibility for completion of all assignments during the excused absences.

It is the responsibility of faculty sponsors, coaches, or instructors involved in other student travel to inform Department Chair and other faculty members of students who miss classes because of approved student travel. The notification of students to be excused from classes should be distributed at least five (5) class days before departure from class.

CLASSROOM CONDUCT

Each student is expected to arrive when or before class begins and remain until the class is dismissed. Each student is expected to bring only books and appropriate educational materials into the classroom. The instructor must approve guests, visitors and any small children present in the classroom. Any student or visitor can be asked to leave if their presence creates a hindrance to the learning process.

TEXTBOOKS, REQUIRED MATERIALS, SUPPLIES AND EQUIPMENT

Each student is expected to purchase all the required supplies and materials to meet the requirements of the course by the second class session. Failure to do so may result in the student being dropped or administratively withdrawn from the class by the instructor.

READING ASSIGNMENTS, WRITTEN AND VERBAL REPORTS

Each student is expected to complete all reading assignments as required. Each student will complete all written reports, writing assignments, and verbal reports as required.

SPECIAL ASSIGNMENTS

Special assignments for extra credit (if offered by the instructor), make-up tests, or assignments that require instructor's approval.

TEST AND EVALUATION ASSESSMENTS

Each student will comply with all course evaluations as required.

PLAGIARIZED MATERIALS, CHEATING OR FALSIFYING**ASSIGNED MATERIALS AS ORIGINAL**

Students are expected to produce original work. Any material taken from another source must be properly documented.

ACADEMIC INTEGRITY PROCEDURE

Northeastern students are expected to maintain the highest standards of academic honesty and integrity. Unless specified otherwise, all work submitted by a student is to be the original creation of that student. Penalties for plagiarism*, including self-plagiarism**, cheating, falsifying work, or other acts of academic dishonesty may include, but are not limited to, verbal or written warning to the student, no credit, or reduced credit for an assignment, administrative withdrawal from the course, "F" grade for the course, disciplinary probation, or expulsion from the college. When a student commits an act of academic dishonesty, the faculty member is required to meet with the student to discuss the alleged violation of academic integrity and the evidence available.

Following the meeting the faculty member decides on the sanction to be given the student (e.g., no credit or reduced credit for an assignment, "F" grade for the course, etc.). The faculty member will report the incident to his/her Department Chair.

In the report the faculty member should provide a brief summary of the case, the evidence available, and the academic sanction given.

After consulting with the student and instructor the Department Chair will place the student on disciplinary probation.

The student shall be notified in writing of this action and this action will be communicated to the Vice President of Instruction, Vice President of Student Services, Registrar and the Office of Financial Aid. If the student commits a second act of academic dishonesty the student will be placed on one semester academic suspension or expulsion from the college. Any act of academic dishonesty may also result in the student being required to complete a program designed to educate that student about academic integrity and associated issues.

Students who violate this policy have rights accorded to them by the Northeastern Judicial System. Please refer to the Northeastern Student Handbook, Section 5.11, for details.

A student who fails a course because of a violation of this policy may retake the course. However, both the original "F" grade and the new grade will be included in the student's overall GPA calculation. This is an exception to the Repeated Course Policy.

*Plagiarism is defined as using the words, images, thoughts, and structural patterns of someone else's work without giving credit to the source through in-text citation and reference or work's cited page. Plagiarism also includes excessive use of quotations, summarization, and/or paraphrasing.

**Self-plagiarism is defined as a student's resubmission of all or part of a written, oral, or artistic work he or she has previously submitted to another class. Self-referenced work must be pre-approved by the instructor.

Note: The Vice President of Instruction will maintain a list of all students who have been placed on disciplinary probation. Each time the VP is notified of a student being placed on probation by a Department Chair, he/she will review the list to determine if it is the student's second violation.

FACULTY AUTHORITY FOR THE CLASSROOM EXPERIENCE

The Northeastern faculty member has the authority to make immediate and preliminary evaluations of a student's academic progress in a class and related personal conduct in the educational setting. This evaluation is based upon one or more of the above standards and the instructor has the option of withdrawing a student from their class based upon noncompliance with classroom conduct and academic experience standards.

COLORADO COMMUNITY COLLEGE ONLINE (CCC ONLINE)

Colorado Community Colleges Online (CCC Online) is comprised of thirteen member colleges in the Colorado Community College System (CCCS). Through CCC Online students can take classes towards any Associate of Arts degrees, Associate of Science Degree, Associate of Applied Science Degrees, and Certificates offered at their home institution.

The courses available are fully accredited and recognized by all member institutions of CCCS and are accredited by Higher Learning Commission/HLC.

Students can find more information by logging in at www.cconline.org, calling 1-844-878-2764 or scheduling an appointment with your Northeastern academic advisor. Students must complete all CCC Online course requirements via computer and internet-based study and communication..

ACADEMIC DEGREE REQUIREMENTS DEGREES & CERTIFICATES

The college offers the Associate of Arts, Associate of Science, Associate of Applied Science, Associate of General Studies Degrees and Certificates in individual career/technical and general studies programs.

INTERNSHIP/ON-THE-JOB TRAINING/ CLINICAL TRAINING

These courses are available as supervised cooperative education arrangements between the college and an employer. The courses provide the students with work experiences which are relevant to their technical program and personal career interests. The work and study calendar varies by program and may be adjusted as appropriate to individual interests, needs, or the availability of work opportunities.

The CTE Program Coordinator or OJT instructor will provide course objectives to the work centers. A weekly class session will be held between student and instructor to review assignments and course objectives. Cooperative Work Experience students and instructors will follow the same procedures.

Work experience is an integral part of the following career programs: Nursing Programs, Agribusiness, Early Childhood Professions, Production Agriculture, and Equine Management. These courses have special credit hour and clock hour designations.

MINIMUM CLOCK HOURS REQUIRED	SEMESTER CREDIT HOURS
320	8
200	5
160	4
80	2

One credit given for each 40-contact hours of work.

COOPERATIVE WORK EXPERIENCE

Cooperative Work Experience offers an extension and application of classroom instruction through the college and an employer who supervises work experiences closely related to the student's educational and career plans. The student's faculty advisor, the department chair, and the coordinator of cooperative education must approve job placement and credit allocation.

Cooperative Work Experience has special credit hours and clock hour designations. A minimum of 40 clock hours of work experience is required for each semester credit hour.

MINIMUM CLOCK HOURS WORKED	SEMESTER CREDIT HOURS
240	6
200	5
160	4
120	3
80	2
40	1

CWE 187 indicates freshman cooperative work experience enrollment and CWE 287 indicates sophomore enrollment. The designation a.b.c. and d. indicates first, second, third, or fourth enrollment in cooperative work experience per year.

Cooperative Work Experience credit may be applied toward certificate or degree requirements with the following limitations:

1. A maximum of 8 semester credits of cooperative work experience may be applied toward graduation requirements.
2. Cooperative Work Experience credits are general electives and may not replace general education requirements or required courses for a major.

Benefits to the student include:

1. Enhanced learning through practical work experience related to the individual's major area of study.
2. Work experience becomes a part of the student's permanent record (college transcript) and may be valuable when seeking future employment.
3. The grades earned are included in the student's cumulative grade point average.
4. A high school student may enroll in Cooperative Work Experience with the approval of the student's faculty advisor, department chair person, the coordinator of cooperative education. This approval must be granted prior to enrollment in Cooperative Work Experience.
5. Wages earned.

INDEPENDENT STUDIES

Independent study provides an opportunity for the above-average student to do independent research in areas not covered in the regular curriculum or to explore in much greater depth a topic covered in a class. Each independent study project must be arranged in advance through a supervising faculty member. The standard tuition charge will be assessed. A maximum of four (4) credit hours may be applied toward graduation requirements.

PRIOR LEARNING ASSESSMENT (PLA)

Prior Learning is a non-college or experience based learning that has been attained outside the sponsorship of accredited post-secondary education institutions. Prior Learning Assessment (PLA) includes learning acquired from work and life experiences, community and volunteer extension courses, individual study and reading, civic, community, and volunteer work, and participation in informal courses and in-service training sponsored by associations, business, government, and industry. PLA is not awarded for EXPERIENCE, but for college-level LEARNING that entails knowledge, skills, and competencies that students have obtained as a result of their prior learning experience.

Prior Learning Assessment Credit may be awarded by a variety of methods that include:

1. Standardized Tests.
 - a. College Level Examination Program (CLEP).
 - b. Advanced Placement (AP).
 - c. International Baccalaureate (IB).
2. Institutional Challenge Examinations.
 - a. Examination equivalent to the comprehensive final exam.
 - b. Examination may be written, oral, demonstration, or a combination of all three.
 - c. Evaluated by an area dean or designated subject expert.
3. Published Guides.
 - a. American Council on Education (ACE) for military training and experiences.
 - b. ACE (non-collegiate) for industrial and corporate training programs.
 - c. Other published guides developed by nationally recognized organizations.
4. Portfolio Assessment.
 - a. Portfolio requirements and assessment determined by college faculty for work or life experiences that meet the following criteria:

- b. The learning is demonstrable.
 - c. Includes both theoretical and applied components.
 - d. Are at the college level.
 - e. Are equivalent to specific college course or courses in the student's program of study.
- 1) To be eligible to apply for PLA:
 - a) You must be a Northeastern student
 - b) PLA credit must be directly applicable to your declared certificate or degree program as outlined in the Northeastern catalog
 - c) Prior learning must be demonstrated and cover specific core competencies
 - d) It is the student's responsibility to determine the transferability of PLA credits outside the Colorado Community College system
 - e) Your Northeastern transcript will show class credit only; no grades are assigned to PLA credit
 - 2) You may receive PLA credit in any amount not to exceed 75% of the total credits required for your degree or certificate.
 - a) A student seeking PLA credit must contact the Northeastern Student Success Center to start the process

Official cumulative permanent records must be established and maintained for all students who have been awarded credit from prior learning experiences. Official Northeastern transcripts shall designate all credit earned through the prior learning process and such credit shall be identified as special course prefix and number and credit. All documentation used as a basis for credit awarded is to be maintained by the Northeastern Records Office.

The Registrar and applicable faculty will evaluate prior learning credit being transferred from a regionally accredited institution.

PREREQUISITES

A prerequisite is a requirement - or its equivalent, which must be met before a student is admitted into a course. A prerequisite is generally another Northeastern course or a demonstrated proficiency.

Prerequisites may be waived on the basis of diagnostic testing and/or the recommendation of an appropriate faculty member or Department Chair.

All students at the college are expected to demonstrate proficiency in basic communication, mathematics, and reading skills necessary to be successful in college level courses. During registration orientation sessions basic skills are evaluated for course advising and placement for success. Previous educational records and diagnostic testing will also be considered for optimum course selection and advising.

RESIDENT CREDIT

A degree candidate must satisfactorily complete a minimum of 15 credits from Northeastern Junior College. For certificates at least 25% must be completed in residence.

GRADUATION REQUIREMENTS

The catalog in use during a student's first enrollment in the college normally is used in determining completion of degree or certificate requirements. The effective catalog may, however, be no more than six years old at the time of graduation. A student may elect to meet the requirements of any subsequent catalog published during the six-year period including the current year.

A student who has a break in college enrollment of two consecutive semesters or more, excluding summer semester, must meet the Program Requirements of the catalog in use at the time of readmission. Any previously completed Northeastern Junior College occupational course work may be subject to an evaluation of relevancy to any revised program.

If the occupational program in which the student was previously enrolled has been discontinued the student cannot re-enroll in that program.

The college reserves the right to substitute courses for those no longer offered, to modify course content at any time, to approve the substitution of one course for another in any program or degree, or to waive any course prerequisite or co-requisite.

7All lower division undergraduate credit hours awarded within the prior ten years will apply towards the completion of the graduation requirements. Credits more than ten years old will receive careful consideration. The Registrar, in conjunction with the Department Chairs of the respective academic divisions, reserves the right to examine any courses more than ten years old to determine their currency and applicability to existing curriculum and programming before credit is accepted.

GRADUATION APPLICATION

Students who expect to graduate must complete an Application for Graduation by the beginning of their final semester. Applications for Graduation are available online at:

<https://www.njc.edu/records/graduation-information>

GRADUATION HONORS

Graduation honors recognize 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, complete 30 credits at Northeastern, and earn a 3.50 or better cumulative grade point average at the institution. Only college level courses completed at the institution will be included in the GPA calculation.

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
- Summa Cum Laude ("with highest honor") 4.00 Cumulative GPA.

ACADEMIC EVALUATION

ACADEMIC STANDARDS OF THE COLLEGE

All policies pertaining to academic standards apply to students who enroll in credit courses at Northeastern, full-time, part-time, regular degree/certificate seeking or special status. All students must maintain a cumulative grade point average of 2.0 (C) and fulfill all course requirements in order to graduate and receive a degree or certificate.

Students not maintaining the required grade point average may be warned or suspended based upon their academic status. Academic progress to maintain financial aid requires a minimum in both number of credits and grade point average.

Faculty Authority – Professional – qualified faculty are hired to facilitate learning by teaching each course and making preliminary, ongoing, and final evaluations of each student's progress. The instructor is the final authority on each student's learning progress and the assignment of final grades for each course. Each faculty member is committed to teach the course content, make individual and on-going learning evaluations of each student, and assign a final letter grade based upon these evaluations. A Department Chair or Director supervises each member of the faculty.

GRADE REPORTS – GRADES

Grade Reports - Final grades are posted by faculty approximately two working days after the last day of the semester or grading period. Final grades for any term shorter than a semester should be posted by individual faculty. Final grades for any term will be available either on an official college transcript or an unofficial academic record only at the end of each semester. The unofficial academic record can be accessed by the student through Access NJC using the student's password.

Grading System (Pass-Fail Option) - Student achievement is evaluated in relation to the attainment of specific objectives of the course. At the beginning of the course the instructor will explain the basis upon which students earn grades. For the purpose of the grade descriptions "achievement" means successfully reaching an identified level of knowledge or understanding and "mastery" means successfully reaching an objective level of competency in a skill.

Veterans Administration regulations have prohibited certain grading practices for veteran students. Each veteran student must be aware of these regulations and conform accordingly.

INVENTORY OF COMMON GRADING SYMBOLS

(Implementation of Common Grade Symbols to be effective Fall 2006)

A - Excellent or Superior

B - Good

C - Average

D - Deficient

F - Failure

I - Incomplete

S - Satisfactory

U - Unsatisfactory

S/A - Satisfactory (A-Level) work in a developmental or PED course

S/B - Satisfactory (B-Level) work in a developmental or PED course

S/C - Satisfactory (C-Level) work in a developmental or PED course

U/D - Unsatisfactory (D-Level) work in a developmental or PED course

U/F - Unsatisfactory (F-Level) work in a developmental or PED course

W - Withdrawal

AU - Audit

Place Holders

SP - Satisfactory Progress

Z - Grade not yet reported

R - Repeat Field

PLA - Prior Learning Assessment

CNG - Conversion - No grade

AU - Audit

By auditing a course, a student may participate in course activities, but does not receive a formal transcript grade. Students must indicate intent to audit a course at registration or by the deadline listed in the course schedule. Audited courses are not eligible for the College Opportunity Fund stipend. Student will be responsible for the full in-state or out-of-state tuition.

Audited courses do not meet the credit hour requirements for financial aid or veteran benefits and may not be applied to certificates or degrees.

Course credits for which an AU is earned will not count in Attempted Hours and Earned Hours.

No Quality Points will be assigned and there will be no impact on either the Term or Cumulative GPA.

I - Incomplete

The "Incomplete" grade is a temporary grade and is designed for students who, because of documented illness or circumstances beyond their control, are unable to complete their course work within the semester, but have completed a majority of the course work (defined as at least 75% of all course assignments and tests) in a satisfactory manner (grade C or better).

If circumstances beyond the student's control prevent the student from completing a test or assignments at the end of the term, then it is the student's responsibility to initiate the request for an "Incomplete" grade from the instructor. The instructor will determine whether the student has a reasonable chance of satisfactorily completing the remaining course activities in a timely manner.

In requesting an "Incomplete" grade the student must present to the instructor the documentation of circumstances justifying an "Incomplete grade". Institutions will determine if electronic or paper contract is required for incomplete grade.

The instructor will complete and sign an "Incomplete Grade Contract" and will submit it to Student Services with final grades for the semester. Student Services will send a copy of the "Incomplete Grade Contract" to the student. Instructor must assign an Incomplete Grade on the regular grade roster in a timely fashion. Whether colleges utilize the paper contract or an electronic contract the student and instructor must satisfy the following:

1. Student Name (F, MI, L).
2. Student ID#.
3. Course Number and Section.
4. Reason for assigning a grade of incomplete (statement of extenuating circumstances).
5. Work to be completed for removal of incomplete grade (instructor should be very specific including the work to be done and how the final grade is to be calculated).
6. Evidence of completion of 75% of the semester course work.
7. Completion of a work plan that includes the following: What, when, and how assignments and tests will be submitted to complete the course. The time-period in which the work must be completed.

8. If using paper contract/form, faculty must list default grade and include appropriate signatures, **OR**
9. If using electronic method, faculty will report the incomplete grade through the institution's online student information system (e.g. Portal). At this time faculty can assign a default grade higher than an "F" and designate a date by which the remaining work must be submitted (this date will not extend past the subsequent semester).
10. If using electronic contract, submission of an incomplete grade and default grade via the Portal signifies that both instructor and student agree to the conditions in the electronic contract.
11. Instructor signature and date.
12. Student signature and date.

Students are encouraged to let instructors know as soon as possible if they are having difficulties with any part of the course. In the event that a student and instructor cannot reach resolution concerning an Incomplete, then the student should contact the Instructional Officer of the college.

Military personnel and emergency management officials who are required to go TDY in the middle of a term should contact their instructor for special consideration. Documentation of official TDY assignment is required and must be approved by the Chief Instructional Officer.

Incomplete grades which are not converted to a letter grade by the instructor after one subsequent semester (not including summer semester) will revert to an F grade.

If the student would have earned a letter grade higher than F without completing the work, faculty should be encouraged to submit that higher grade before the automatic conversion to F.

S/U Grading

Individual students will not be able to select the S/U grading option for a course that has been identified as a traditionally graded course when using the self-service features of Banner. A request for S/U option must be submitted to the registration office prior to the first day of class. NOTE: If individual students are permitted by college procedure to choose an S/U option for a course the college will build two sections of the course - one for the graded section and one for the S/U option.

No S/U courses may be applied to the AA/AS degree with the exception of physical education courses. "S" and "U" will count in attempted and earned credits, but will not carry any quality points. Therefore, S/U grades will not be included in GPA calculations. -

Satisfactory

The satisfactory grade is equivalent to a grade of "C or better". The course will count in attempted and earned credits, but will not carry quality points.

U - Unsatisfactory

The unsatisfactory grade is equivalent to a "D" or "F" grade. The course will count in attempted credits, but will not carry earned credits of quality points.

S/A, S/B, S/C

These are satisfactory grades awarded only for developmental and PED classes. The A, B, and C indicate the level of satisfactory performance. These grades are not included in the GPA calculation. The course will count for attempted and earned credits. These grades will also be used for PED classes.

U/D, U/F

These are unsatisfactory grades awarded only for developmental and PED classes. The D and F indicate the level of unsatisfactory performance.

These grades are not included in the GPA calculation. The course will count in attempted credits, but will not carry earned credits.

W - Withdrawal

The "Withdrawal" grade is assigned when a student officially withdraws from a course. A withdrawal can only be processed during the first 80 percent of the course. No academic credit is awarded. The course will count in attempted hours. Faculty are required to provide the last date of attendance for each student who is assigned this grade.

Last Date of Attendance

Faculty are required to provide the last date of attendance for each student awarded a F or U/F grade. In addition, if faculty assign a W, last date of attendance is also required.

AU (Audit) None (Must be issued prior to 15% of class duration. Student initiated only – "W" has no impact on GPA.)

Place Holders

SP – Satisfactory Progress

This symbol is limited to certain approved courses that extend beyond the end of a normal semester. No academic credit is awarded until course is completed.

Z – No Grade Submitted

The grade of "Z" is a temporary grade entered by the Registrar when a grade is not received from the course instructor. The "Z" grade is replaced and credit awarded upon the Registrar's receipt of the grade.

Repeat Field

The Repeat Field on a transcript will be marked I – Include in hours and GPA calculation, A – Exclude from earned hours and GPA calculation or E – Exclude from earned hours but count in GPA calculation.

CCC ONLINE GRADING SYSTEM

The following grading system is approved by the Community Colleges of Colorado for online courses.

GRADE	QUALITY POINTS
A	4
B	3
C	2
D	1
F	0

S (Satisfactory) No Quality Points ("S" grade of C or better—no impact on GPA)

- Approved only for selected, approved courses.
- A request for the S/U option must be submitted to the registration office prior to the first day of class.

• No S/U course may be applied to the AA/AS degree with the exception of physical education courses.

U (Unsatisfactory) No Quality Points

I (Incomplete) None (75% of the course work must be completed with a grade of "C" or better within a time period equivalent to one semester after the end of the class.)

W (Withdrawal) None (Must be issued prior to 80% of course duration. Can be initiated by either the student or instructor.)

AU (Audit) None (Must be issued prior to 15% of class duration. Student initiated only – "AU" has no impact on GPA.)

Z None (No grade reported).

Grade Point Average Calculations. The college employs a system of grade points for rating the student's scholastic achievement.

The following point scale is used; A-four points for each credit; B-three points for each credit; C-two points for each credit; D-one point for each credit; F-0 points for each credit. "S" and "U" will count in attempted and earned credits, but will not be included in GPA calculations. The following example illustrates how grade points are calculated.

SUBJECT	GRADE	CREDITS	X	GRADE POINTS	QUALITY POINTS
English	B	3	X	3	=9
Band	F	(1)	X	0	=0
Biology	D	4	X	1	=4
Spanish	C	5	X	2	=10
History	A	3	X	4	=12
Total		16			=35

Total Credits Attempted.....6

Total Credits Earned.....15

Grade Point Average(35 divided by 16) = 2.1875

The cumulative average is obtained by dividing the total number of quality points accumulated at a given time by the total number of credits undertaken while they are being earned.

Physical education activity classes do not have grades computed in the academic grade point average. Grades earned in college preparatory courses are not computed in the academic grade point average.

Grades awarded for developmental courses (as defined by CCHE as Basic Skills courses) will not be included in a student's grade point average (GPA). Grading for developmental courses will utilize the developmental grade mode (S/A, S/B, S/C, U/D, U/F). The credits will count toward earned and attempted credits. GPAs for term recognition such as President's List, VP List, and Dean's List will not include developmental courses in the calculation.

MID TERM ASSESSMENT

All students are assessed near the middle of each term.

This academic assessment provides the student with a midterm grade review to plan needed improvements before final exams. All students assessed at a D or F grade level may be contacted for referral to the Counseling Services or Monahan Learning Center.

FINAL EXAMS

Final exams are held in all subjects according to the published schedule. No examinations should exceed two hours in length. Should any unusual circumstances develop requiring a special examination at a time other than the scheduled time, special authorization must be approved by the Department Chair and instructor involved.

SCHOLASTIC HONORS

Northeastern promotes and encourages scholastic achievement.

Students who earn a Term Grade Point Average (TGPA) of 3.50 - 3.749 while carrying a minimum of 12 credits within one semester will be listed on the Dean's List. Students who achieve a Term Grade Point Average (TGPA) of 3.75 - 3.99 while carrying a minimum of 12 credits within one semester will be listed on the Vice President's List. Students who achieve a TGPA of 4.00 while carrying a minimum of 12 credits within one semester will be listed on the President's List. This honor roll is published each semester.

Students with incomplete grades for the semester are not eligible.

S/U grades and grades for Developmental Education coursework are not included in the Grade Point Average Calculation. Students must complete a minimum of 12 eligible credit hours in the term to be considered for Term Academic Honors. **Phi Kappa Theta/PTK** is made up of student members who have completed at least 12 hours of associate degree course work with a cumulative GPA of 3.50.

Membership is by invitation only.

Athletic Scholastic Honors are given to students carrying a minimum of twelve credits with a cumulative grade point of 3.50 and participating in athletics. Each scholastic honors athlete receives a certificate denoting this achievement.

DUE PROCESS FOR GRADE CHANGE

Purpose - A final grade must remain a professional educational decision made strictly by the faculty member and must have the complete support and backing of the college. The integrity of the academic standards of the college depends upon the grading procedures of the individual faculty member. A change of a final grade results from a personal and private appeal from the student to the faculty member.

The intent of the following procedures is to keep the ultimate control of the final grade with the faculty member and to protect the faculty member and the college from requests that do not meet a minimum standard. The baseline of a grade change request should involve unusual and mitigating circumstances to allow the faculty member to reconsider the decision involving a final grade in question. The following conditions and procedures are required for any grade change request.

REQUIREMENTS FOR A GRADE APPEAL

1. The student must have written academic materials or written information that supports an appeal. This information must be material that the faculty member could have, by some error, misplaced, overlooked, or not included in the final grade. Other materials that assist an appeal would be schedule modification forms or withdrawal from college forms.
2. The appeal must be based upon documented material and not a challenge to the judgment of the faculty member.
3. The appeal must be initiated within ten (10) college workdays after the start of a new grading semester. Summer is considered a grading semester. An appeal requested ten days after the first class day of the next semester will not be considered.

4. The instructor of record for the class must be a continuing full-time or part-time employee of the college. If the instructor of record is no longer an employee of the college then an appeal for a grade change can only be resolved through a Department Chair.
5. Only the student who has unusual and mitigating circumstances for the request may initiate the appeal. Other parties may assist but cannot make the appeal or present materials for the student.

CONDITIONS OF A GRADE APPEAL (FINAL GRADE ONLY)

Conditions for a grade change appeal include, but are not limited to, the following examples:

1. The grade was the result of a mistaken identity or a student was given a grade that was intended for another student.
2. The instructor inadvertently recorded the wrong grade for an assignment or failed to record a grade for a test, paper, or project. The student subsequently produced the original assignment or paper or test results for re-consideration.

The grade was based upon the criteria of attendance and the student documents claims to have attended the class sessions as required, but the instructor has attendance records that are different from the student's records.

GRADE APPEAL PROCEDURES INFORMAL RESOLUTION

The student should request a private discussion with the instructor to present the reasons for an informal resolution to the grade change request.

The instructor can make the grade change or reject the request without any further action; no written response is required.

1. An informal resolution by the instructor must be completed within ten (10) days of the student's initial request. A non-response within ten days by the instructor of record is considered a rejection of the appeal, unless the instructor of record is unavailable.
2. If the student feels the decision by the instructor of record was unfair and was not based upon current college grading practices, then a request for a formal resolution can be filed.
3. If the college no longer employs the instructor of record the Department Chair will review the appeal and determine the resolution. No other action is available after the Department Chair and Vice President of Instruction have reviewed the grade change request if the instructor of record is no longer employed by Northeastern.

FORMAL RESOLUTION FOR A GRADE CHANGE REQUEST

A Formal Resolution can occur, but is not limited to, the following.

(1) If a student has attempted an Informal Resolution with the instructor of record and feels that additional impartial staff need to review the appeal; (2) If the student prefers not to seek an informal resolution with the instructor for whatever reason and wants impartial staff to review the appeal.

PROCEDURES FOR A FORMAL GRADE CHANGE APPEAL

1. The student can appeal the decision of the instructor by obtaining a Grade Change Petition from the Northeastern Records Office. The Grade Change Petition must be initiated within the first 10 days of the next grading period. Copies of the petition will be filed with the Records Office, the Instructor, and the Department Chair.

If an informal attempt has been made the ten-day limit will begin after an informal resolution has been tabled or denied.

2. The Registrar will review the appeal and research the files for materials pertaining to the class and grade involved. The Records Office will forward all findings to the instructor of the course and to the Department Chair. The Instructor will provide all grading materials to the Department Chair pertaining to the student and grade involved. Materials from both the Records Office and the Instructor will be forwarded to the Department Chair within five days of the request.
3. The Department Chair will review all material relating to the appeal and review the best possible resolution with the Instructor. Based upon the Department Chair's review of all related materials, personal interview of the Instructor and possibly the student, the Department Chair will respond to the Grade Appeal. The Department Chair will give a written response within ten (10) days after receipt of the materials.
4. The student may appeal the Department Chair's decision to the Vice President of Academic Affairs. This appeal must include the Grade Change petition and significant and mitigating reasons for the continued appeal. The Vice President of Academic Affairs will confer with the President and will respond in writing within 10 days of receiving the Grade Petition.
5. The student may appeal the President's decision to a President's Academic Hearing Board. This board appointed by the President will consist of three faculty representatives, two professional staff, and three students – could be ASG Officers or ASG Senators. The chair of the President's Academic Hearing Board must be selected from the membership to insure an impartial decision. This appeal must include the Grade Change Petition and significant and mitigating reasons for the continued appeal. The Hearing Board will forward a response to the President within ten days of receiving the Grade Petition. The President will respond to the student's appeal within five days of receiving the Hearing Board's recommendation. The President's response is final.

ACADEMIC STANDARDS

Application

For students who have completed fewer than nine credit hours, the college will monitor satisfactory progress through an Academic Alert process. These students are not subject to Academic Standing. Academic Standing applies to all students who have attempted nine or more credits at a CCCS college regardless of the number of term credits they attempt from that point forward. Academic Standing shall be applied consistently and uniformly within each CCCS institution.

All colleges will determine Academic Standing following the posting of the majority of term grades for each semester. Students placed on probation or suspended will be notified of their status.

Suspended students will not be allowed to attend any CCCS college in the subsequent semester(s) unless an appeal is approved.

Academic Standing status will be noted on the advising, official and unofficial transcripts. The Academic Standing of a student is not specific or limited to the home institution; it does impact a student's enrollment at other CCCS colleges.

Principle

Designates a practice for measuring and notifying students of their academic standing.

Guideline

Recognizing the value of measuring academic progress for all students, the Colorado Community College System (CCCS) has established the following practice and procedures for measuring and notifying students of their academic standing. This procedure is intended to be informational and helpful, but also establishes clear standards of academic progress that must be met and maintained in order to be a successful student in our colleges.

CCCS colleges are encouraged to devise and implement appropriate Academic Alert strategies early in the term to assist students who are experiencing academic difficulties. A student's academic standing at one college will impact academic standing at another CCCS college.

Definitions:

Only college level classes are used to calculate term and cumulative GPAs. This includes summer term courses.

Only courses taken "in residence" will be used for this procedure, "In residence" means taken at the student's home institution. Courses taken elsewhere and transferred in do not apply. The GPA calculations for this procedure may not match those used for financial aid purposes or athletic eligibility.

Cumulative Grade Point Average is abbreviated as CGPA. Term Grade Point Average is abbreviated as TGPA.

Practice Standards:

Initial Standing - Student has attempted fewer than nine cumulative credit hours with a CGPA \Rightarrow 2.00 for all classes completed.

Academic Alert

Student has attempted fewer than nine cumulative credits with a CGPA $<$ 2.00 for all classes completed.

Good Standing

Student has attempted at least nine cumulative credit hours and has a CGPA \Rightarrow 2.00 for all classes completed.

Probation

Student has attempted at least nine cumulative credit hours and has a CGPA $<$ 2.00 for all classes completed.

Returning to Good Standing

By the conclusion of the Academic Probation term the student must raise their CGPA to at least 2.00. If this condition is met, the student returns to Good Standing.

Probation (Continuing)

If a student on Academic Probation earns a TGPA of at least 2.00 for all classes attempted during the term, but fails to raise their CGPA to at least 2.00 for all classes attempted the student will be allowed to attend the next term, but will remain on Academic Probation.

Suspension

If a student on Academic Probation earns a TGPA of less than 2.00 for all classes attempted the student will be suspended and will not be allowed to enroll at any CCCS college for the next term, excluding summer term (as summer term may not be used as a "suspension term").

Suspension Rules:

1. Summer term may not be used as a "suspension term".
2. Summer term may be used to remediate (improve) the GPA. If a student wishes to enroll for summer term after being suspended they will need to follow their home institution's process.
3. Initial suspension is for one term, excluding summer term.
4. A second suspension is for two terms, excluding summer term.
5. If a student, who has served the suspension time for initial suspension or second suspension, wishes to return, the student will be allowed to re-enroll only after meeting with an academic advisor at the CCCS College that the student wishes to attend. The student will be placed on Academic Probation.
6. A third suspension is for two full years or four academic terms, excluding summers.
7. If a student, who has served the third suspension time of two years, wishes to return, the student must meet with an advisor from the CCCS College the student wishes to attend in order to get their suspension hold removed.

Suspension Appeals:

1. Students may appeal their suspension based on procedures identified in the Northeastern Academic Standards Handbook.
2. If the student's suspension appeal is approved the student will be placed on Academic Probation.
3. If the student's suspension appeal is not approved, the student may be dropped from all courses registered for in upcoming terms at their home college. Students are ultimately responsible for their enrollment and need to check their enrollment schedule for accuracy.
4. The student needs to check with Northeastern Student Services regarding enrolling for summer term classes.

Academic Appeal Procedure:

Any student who is suspended for the next semester has the right to appeal. The following procedures will be followed:

After notification of suspension the student must write a letter for reconsideration of this action to the Chair of the Academic Standards Committee requesting to be re-admitted on academic warning, stating all reasons for this consideration. This letter must be received prior to the academic standards review date.

The Academic Standards Committee will review the student's academic record and letters of appeal. Based upon the committee's consensus the chair will inform the suspended student in writing if re-admittance is approved or denied.

The Academic Standards Committee can require a re-admitted student to take a certain course load, take the success seminar, assign counseling, or study skills. Weekly progress checks can also be part the re-admittance requirements.

Any re-admitted student who shows little or no academic progress (more than two D or F grades at midterm) based upon the mid-term report of the re-admit term may be administratively withdrawn and placed on suspension.

ACADEMIC ASSISTANCE – FULL TIME STUDENTS

All full-time students (enrolled in more than 12 credits) placed, continued, or re-admitted on Academic Warning are required to do the following:

1. The student may be scheduled for up to eight (8) weekly success appointments or enroll in a student success seminar as determined by the Student Guidance Coordinator's.
2. The student may be assigned to weekly study skills assistance in the Monahan Learning Center with tutors or help sessions as determined by counseling/or study skills evaluation.
3. The student will continue the counseling appointments and study skill assistance in the Monahan Learning Center if academic progress is not sufficient by mid-semester.

ACADEMIC ASSISTANCE – PART TIME STUDENTS

All part-time students (enrolled in fewer than 12 credits) placed, continued, or re-admitted on Academic Warning are required to do the following:

1. Consult an academic advisor or Student Guidance Coordinator to review the student's academic transcript and plan tutorial or personal assistance before completing preregistration for additional classes.
2. Receive an academic advisor's or Student Guidance Coordinator's approval to enroll in any classes while on academic warning.
3. Part-time students from outreach sites, evening or day enrollment are encouraged to seek weekly progress appointments with a Student Guidance Coordinator enroll in a student success class or request tutorial and study skill assistance at a convenient place and time.

SATISFACTORY PROGRESS - FINANCIAL AID

Because of increased demands from the public and from federal and state authorities, regulators are placing increased accountability standards on colleges and universities. One of these standards is a satisfactory academic progress policy for financial aid recipients.

The policy monitors three different aspects of a student's academics: 1) Course Completion Standards, 2) Qualitative Standards, and 3) Quantitative Standards. See summaries of Northeastern's standards listed on pages 24-25.

ACADEMIC PROGRESS – SUMMER TERM

A first-year student on academic suspension, no matter when the suspension was instituted, may enroll for the summer term. If the student on academic suspension achieves above 1.50 grade point average for the summer term, earning five credit hours or more, the suspension is changed to academic warning. The student could continue the next academic term on academic warning.

ACADEMIC ASSESSMENT PROGRAM

General education at Northeastern leads students to career, technical, and transfer competencies. The skills and abilities developed through general studies enable students to pursue personal, professional, and academic goals. Student learning is designed to enhance three institutional Goal Areas identified by faculty and staff at Northeastern: Communication, Thinking, and Career & Life Skills. Therefore, students who graduate from Northeastern will demonstrate proficiency in those Goal Areas.

STUDENT SERVICES

Student Services at Northeastern provides a variety of essential services, programs, and learning support for all students and staff. Student Services provides the “out of class” support and social environment to enhance academic and personal achievement. Student Services programs develop student access to programs of leadership, residence halls, athletics, intramurals, financial assistance, student activities, and student government. The college encourages and promotes participation and utilization of the following activities and services.

CAMPUS LOCATION/PHONE

Vice President Student Services:

Student judicial affairs, enrollment and retention, and student advocacy.

Hays Student Center, Room 113, extension 6657

Student Government:

Associated Student Government (ASG), Campus Activities (CAB), Senate Hays Student Center, Room 113, extension 6655

Admissions:

New student admitting and recruiting process and campus visits.

Hays Student Center, Room 102 & 105, extension 6800

Student Success Center:

Academic advising, student Guidance Coordinator, career planning, assessment/placement testing, transfer advising and concurrent enrollment, student success seminar and Education to Career Coordinators.

Hays Student Center, Room 104, extension 6663

Financial Aid:

Student financial assistance, scholarships, grants, loans, work study and Veterans Administration benefits.

Hays Student Center, Room 102, extension 6800

Food Service:

Contracted operation for cafeteria. Hays Student Center, Pete’s Retreat - snack bar phone - 522-9063, Room 103

Health Services – 615 Fairhurst, Sterling, CO 80751

Residence Life:

Residence hall contracts, meal plans, room assignments, and residence hall activities.

Hays Student Center, Room 113, extension 6608

Records:

Registration/add/drop/withdrawal of courses, grade processing, official transcript issuing, graduation/commencement, transfer credit evaluations, graduation evaluations, athletic eligibility and change of major.

Hays Student Center, Room 102, extension 6700

Bookstore:

Textbooks, supplies, clothing, and gifts.

Hays Student Center, Room 106, extension 6678

Campus Security:

Clery Act, safety resources and emergency notifications

Walker Hall, Room 20A, extension 6683

RESIDENCE LIFE - HOUSING

Residence Halls

Each residence hall is under the leadership of a professional Residence Hall Director or Resident Assistant staff. The staff is carefully selected and receives extensive training. Together they provide a living/learning community whereby each resident has the opportunity to make new friends, grow individually, and receive support for their academic endeavors.

Residence Life Policy. All first-year students with fewer than thirty (30) semester credit hours earned are required to live in the residence halls for two semesters or until thirty (30) semester credits are earned. First-year students who are exempt from the housing policy are:

1. Over twenty-one years of age
2. Married
3. Have minor dependent children
4. Commuting to Northeastern from a parent or guardian’s residence within a 60-mile radius.

Contract. The Residence Hall Contract, from the beginning date of the contract period, binds the resident to the length of contract selected; thirty-two (32) weeks required for first-year students and eight, 16, or 32 weeks are optional choices for sophomore students. All students residing in the residence halls are required to purchase a meal plan in conjunction with the Residence Hall Contract. Students may choose between the following seven-day meal plans:

- 10 meals plus 150 flex points
- 14 meals plus 100 flex points
- 19 meals plus 50 flex points
- 75 block meals plus 150 flex points
- 100 block meals plus 100 flex points

Off-campus students may purchase meals daily or purchase a prepaid meal plan.

Room Assignment Policy. All residents are required to pay a \$150.00 room deposit, complete a contract to reserve accommodations, and Colorado law requires college students born since January 1, 1957, to be immunized against measles, mumps, and rubella. All students under the age of 19 must show proof of immunity if they attend a college or university with on-campus housing.

For all public or nonpublic post-secondary education institutions in Colorado the state law requires that each incoming freshman student residing in student housing, as defined by the institution, or any student who the institution requires, to complete and return a standard certificate indicating immunizations received by the student as a requirement for residing in student housing, be provided with information on meningococcal disease. If the student is under the age of 18 years, the student’s parent or guardian must be provided with this information.

Each institution must require each new student who has not received a vaccination against meningococcal disease, or if the new student is under the age of 18 years, the student's parent or guardian, to check a box and sign to indicate that the signer has reviewed information on meningococcal disease and has decided that the new student will not obtain a vaccination against meningococcal disease.

Contract Release

The Residence Hall Contract is a legal and binding document for services rendered or reserved. The Department of Residence Life realizes, however, that circumstances may change once students move into the residence halls and for this reason the following guidelines will govern a contract release request:

- **Medical:** The student has developed a specific medical situation which prevents him/her from fulfilling the terms of the contract. A medical verification which specifically states the nature of the medical situation and why it contributes to the student's contract release request must be supplied by a health care professional (on doctor's letterhead with signature) and must accompany all requests for a release based on medical reasons.
- **Financial:** The student's financial situation has undergone an involuntary change which was beyond the control of the student when he/she first signed their Residence Hall Contract. For all financially related requests the Financial Aid Office must supply a Student Financial Profile.
- **Extenuating Circumstances:** These include situations, other than financial or medical, which the student feels warrant a release from their contract. Examples of extenuating circumstances include an upcoming marriage, a counseling related issue, etc. Students who move out without meeting with the Director of Residence Life & Student Activities or without meeting the contract release guidelines will forfeit their damage deposit and one half of their housing fee. There will be no room refunds after eight weeks of the semester.

Refunds of Room Deposits. Housing deposits of \$150.00 will be refunded only in accordance with the following procedure:

1. Full refund will be granted if notice of cancellation is postmarked and mailed to the Northeastern Department of Residence Life Office by July 1 for the fall semester or 30 days.
2. Full refund for spring semester is allowed if the same procedure is followed on or before December 1 or 30 days.

Food Services. The college has one main cafeteria that seats three hundred diners with the option of banquet facilities up to four hundred and fifty in the Student Center Ballroom. The college contracts the operation of the food services to a private company; currently the vendor is Sodexo.

Northeastern requires all student residents to contract for a meal or board plan while living on campus.

Students can select from five meal plans to meet their individual dining needs as well as eat in Pete's Retreat, a fast food facility also under the food management contract.

Each student is issued a photo ID that has his/her meal plan encoded; the ID card gives the student access to the cafeteria for the meals selected.

The cafeteria is open the days the residence halls are open and closed for the major breaks such as between semesters and spring break.

The food service company strives to serve the student with a variety of menus, quality service, and unlimited seconds for most meals. Special catering is available upon request for any location on campus. Purchasing food catering or food service from food vendors other than the contracted food service company is prohibited.

Academic Standard for Returning Residence Hall Students

Returning students wanting to reside in the residence halls must have at least a 2.00 CUM GPA. Incoming freshmen will have a year to show sufficient academic progress for continued residence on campus.

Health Services

The Family Care Clinic serves Northeastern students. It is located at **615 Fairhurst in Sterling or the Clinic on Main Street** (depending on Doctor seen). The Clinic is fully staffed and provides front line health care. Full-time students (12 credit hours or more) may be seen by staff without charge. Other minimal fees are assessed to all patients to cover the cost of materials such as strep screening, urine screening, any lab procedures, and supplies such as braces, condoms, bandages, etc. You can reach **the Family Care Clinic at 970-521-3223**.

ASSOCIATED STUDENT GOVERNMENT

All students are encouraged to participate in student clubs and organizations for their personal growth and recreation. The Hays Student Center has student designated areas of: Legislative Chambers, Student Government Office, and various meeting rooms and lounges. Northeastern recognizes the satisfaction and the contribution to personal and social development which come from participation in group activities outside the classroom. The central control system of student activities is placed in the hands of the students through their duly elected representatives in the Associated Students of Northeastern which includes all students and operates under a constitution adopted by students.

ASSOCIATED STUDENT GOVERNMENT (ASG)

Membership includes every member of the student body. Associated Student Government of Northeastern is headed by officers who are elected by the student body and functions through representatives of the academic divisions and chartered organizations. Any member of the Associated Students of Northeastern is welcome to attend the weekly meetings of ASG and may participate in the business meeting. ASG concerns itself with student affairs and campus life.

CAMPUS ACTIVITIES BOARD (CAB)

The Campus Activities Board is composed of representatives from all organizations on campus and is chaired by the second vice president of the ASG. This board correlates campus activities and allocates student activity funds set aside by Student Senate for campus life.

STUDENT SENATE

The Student Senate is composed of full-time students elected proportionally from the academic and occupational divisions of the college and headed by the first vice president of ASG. Its responsibilities include legislation concerning all students and allocation of student activity funds to Campus Activities Board for student activities and all other expenditures, including publications and special requests.

COMMITTEE

The College Constitution Committee rules on all questions concerning the student constitution and bylaws. The members are appointed by the President of ASG and confirmed by the Student Senate. Students also have an opportunity to participate in all-campus committees, which include students as voting members. Among these are the Constitution Committee,

Finance Committee, Election Committee, and Food & Banquet Committee. The organizations listed have been active in recent years. Interested students under authorized constitutional procedures may start additional organizations each year.

CHARTERED STUDENT ORGANIZATIONS & STUDENT CLUBS

Aggies Contact Person: Larry Pollart; 521-6640

Ambassadors Contact Person: Adam Kunkel; 521-6952.

Art Club Contact Person: Will Ross; 521-6710

Associated Student Government Contact Person: Tim Stahley; 521-6655

Auto Tech Club Contact Person: Layton Peterman; 521-6794

Book Club Contact Person: Donna Brady-Lawler; 521-6725

Business Club Contact Person: TBD

Campus Activities Board Contact Person: ASG 2nd Vice President; 521-6628

Choir/Contemporary Choir Contact Person: Celeste Delgado-Pelton; 521-6754

Concert Band/Jazz Band Contact Person: Lee Lippstrew, 521-6713

Cosmetology Contact Person: Julie Rhine; 521-6734

Criminal Justice Contact Person: Dante Penington; 521-6704

Crossroads Contact Person:

Debate Club Contact Person: Dante Pennington 521-6704

Diesel Power Club Contact Person: Jimmy Atencio; 521-6692

Equine Club Contact Person: Cole Briggs; 522-6913

E-Sports Contact Person: Adam Kunkel; 521-6952

Farm Bureau (Collegiate) Contact Person: Andy Bartlett; 521-6786

Honors Program Contact Person: Jessica Harder; 521-6721

Intramural Sports Contact Person: Jill Yocom; 521-6621

Livestock Judging Contact Person: Curtis Doubet; 521-6638

Math and Science Club (AKA Outdoor Recreation) Contact Person: Dave Coles; 521-6753

Nursing (ADN) Contact Person: Alexes Ertle; 521-6701

Outdoor Recreation Contact Person: Dave Coles; 521-6753

Peer Helpers Contact Person: Jessica Harder, 521-6721

Philosophy Club Contact Person: Clint Rothell, 521-6764

Phi Theta Kappa (PTK) Contact Person: Jeri Garrett; 521-6654

Residence Life Contact Person: Tim Stahley; 521-6655

Rodeo Club Contact Person: Brian Cullen; 521-6609

Senate Contact Person: ASG 1st Vice President; 521-6627

Student Athlete Advisory Council Contact Person: Denise Dennington, 521-6614

Theatre Productions Contact Person: Nathan Robinson, 521-6706

INTRAMURALS

Intramural Sports. (Competition within the student body) are set up on a team, dual and individual basis. Intramural sports stress maximum participation, good sportsmanship and freedom to choose activities.

INTERCOLLEGIATE ATHLETICS: MEN AND WOMEN

Varsity Sports. Varsity sports are coordinated by the Director of Athletics. Northeastern is a member of the Region IX of the Northeastern NJCAA. Current major sports are women's volleyball, men's and women's basketball, baseball, women's softball, men's and women's soccer, and wrestling. Participants in these activities have an opportunity to develop athletic prowess, leadership ability, and skills in working with others in the accomplishment of a common goal.

STUDENT SUCCESS CENTER

ADVISING

Advising is required for new students in degree or certificate programs and is strongly recommended for all other students. Advising is done by the student's assigned faculty advisor (with services provided by the Student Success Center if the faculty advisor is not available). The following services are provided:

- Explanation of basic skills (placement) results and assistance in selecting classes to resolve any academic deficiencies
- Help in choosing and registering for classes for the first semester of enrollment
- Information on course sequence and prerequisites
- Help in adding or dropping classes
- Assistance with changing a course of study or faculty advisor
- Advising on classes when a faculty advisor is not available

STUDENT GUIDANCE COORDINATOR

Between classes, work, family, finances, and regular life events college students encounter a great deal of stress over the course of their education. While most students cope successfully with the demands of college life, for some, the pressures can at times become overwhelming and unmanageable. At those times the Student Success Center offers support and referrals.

CAREER COACH

The Career Coach assists students with clarifying their career goals, choosing the Northeastern education program that fits their needs best, and mapping their path to the chosen course of study. Once the course of study is selected students are helped to choose the appropriate courses that will meet their goals. The following services are provided:

- Career coaching (individual and group) to help with decision-making, goal setting and choosing a college course of study.
- Career assessments to match personal characteristics with occupational options.
- Assistance with career or job placement skills.
- Resume, cover letter, and interview prep.

BEHAVIORAL INTERVENTION TEAM

The Northeastern Behavioral Intervention Team (BIT) is a trained group of caring Northeastern faculty and staff professionals who meet regularly to support our students via an established protocol. The team tracks “red flags” over time, detecting patterns, trends, and disturbances in individual or group behavior.

The team receives reports of disruptive, problematic, or concerning behavior or misconduct (from faculty and staff members, students, community members, friends, etc.) and conducts an investigation, performs a threat assessment, and determines the best mechanisms for support, intervention, warning/notification, and response. The team then activates the resources of the college and/or the community and coordinates follow-up. BIT is a specific model that has no parallel. The Northeastern BIT is made up of the following campus personnel: Vice President of Student Services, Athletic Director, Psychology Instructor, Student Success Specialist, Director of Academic Support Services, and the Director of Student Success, Student Activities and Campus Safety Coordinator. For more information, contact the Vice President of Student Services at 970-521-6657.

STUDENT SUCCESS SPECIALIST

The Student Success Specialist provides academic advising, mentoring, and support for students, with a special emphasis on those from historically underserved and/or underrepresented groups.

TESTING CENTER

The testing center administers placement testing and certification tests to students and the community.

CONCURRENT ENROLLMENT FOR HIGH SCHOOL STUDENTS

Northeastern’s Concurrent Enrollment Program allows high school students to concurrently enroll in college courses. High school students earn both high school and college credit. Students must be approved by their high school for enrollment into concurrent enrollment courses. Guidelines for student eligibility include:

1. Demonstration of readiness to take college courses by means of acceptable assessment scores

2. Demonstrate through previous high school work of the skills/knowledge necessary to be successful in the concurrent enrollment course
3. Completion of all high school and college prerequisites

Please check with your local school district regarding the policies they may have for tuition reimbursement.

Concurrently enrolled students and their high school advisor will need to work with Northeastern to develop a postsecondary educational plan. All courses administered through Northeastern’s concurrent enrollment program conform to college academic standards of rigor and Colorado Community College System (CCCS) curriculum outcomes.

Concurrent enrollment courses can be applied towards a degree/certificate at Northeastern or can be transferred to another college or university. For more information about Northeastern’s concurrent enrollment program contact the Student Success Center at 970-521-6663.

MONAHAN LEARNING CENTER

The Monahan Learning Center/MLC, located on the first floor of Knowles Hall, meets the individual academic needs of any Northeastern student. The MLC staff is committed to the success of each and every student regardless of major or subject area. The MLC provides academic and personal support services to approximately 1,300 students each year including preparatory classes, workshops, study groups, personal tutoring, accommodations for disabilities.

A full-time, professional staff provide a friendly atmosphere where students can work one-on-one and in small groups to help students achieve the best possible academic performance. Professional Instructional Specialists tutor students in all majors for virtually all courses offered on the Northeastern campus.

Students selected for their high grade point averages and demonstrated academic performance in their majors, provide high-quality tutoring services from a student-to-student point of view.

PERSONAL TUTORING

Personal tutoring may be scheduled with either Instructional Specialists or Learning Assistants. Tutoring appointments typically run 30-50 minutes and focus on course subject matter, test preparation, and study skills. Surveys show that students consider tutoring a key to academic success. Like study groups, personal tutoring is based upon student preparation for each session and active student participation. Personal tutoring has enhanced students’ success in upper-level courses including biology, chemistry, and advanced mathematics. Students may make tutoring appointments in person or by calling the learning lab. One-time and permanent appointments are available.

STUDY GROUPS

When several students in the same class request academic assistance Instructional Specialists and Learning Assistants form small study groups. The groups may meet occasionally—just before exams and major assignments— or on a regular, weekly basis.

The study groups require that students prepare for each session (completing reading assignments or textbook exercises) and participate in discussions. Historically study groups have greatly enhanced student success in challenging subjects such as sociology, psychology, and algebra.

MATH AND WRITING EXCEL CENTER

The Excel Center is an additional place for students to get help from a tutor or instructor, study on their own, or work with friends. The Center offers walk-in tutoring during our hours of operation. Students are welcome to check out a laptop to work on homework or bring their own device. For both Math and Writing, the Center provides walk-in, on-the-go support for all math and writing needs; it's also a great place to study or collaborate for projects. The Excel Center offers drop-in writing consultations during hours of operation geared to help students whether they are brainstorming, planning, drafting, revising, or editing a writing project. Individual appointments for extra assistance, or personal tutoring, are available through the MLC tutoring center.

WORKSHOPS

Workshops offered in the Monahan Learning Center, residence halls, and classes at faculty members' requests provide students opportunities to learn strategies for time management, test taking, memory improvement, and other topics, such as resume writing, decision-making, and financial literacy.

ACCOMMODATIONS FOR DISABILITIES

Northeastern is committed to serving students with disabilities. The MLC's Transition Specialist works with students to document their disabilities and make accommodations so that students can pursue their chosen program of study. Students who have received special services for disabilities during their K-12 school years or at other institutions are strongly encouraged to contact the Transition Specialist.

Students must take two critical steps to receive accommodations for disabilities: 1) identify themselves as disabled students and 2) provide documentation, if available, of their disabilities. To complete these steps students should contact the Transition Specialist at 970-521-6727.

MONAHAN LIBRARY

Located in Knowles Hall, houses a comprehensive collection of approximately 35,000 published and recorded items to help student's complete assignments and expand their educational opportunities. These materials include books, DVDs, videotapes and compact disks, pamphlets, microforms, over 70,000 eBook titles, and various full-text online databases. The Monahan Library subscribes to 98 periodicals, including local and regional newspapers. A computer lab with Internet access, Wi-Fi, word processing, and other software programs are also available for student use. Laptops and Kindles are available for checkout. The Monahan Library provides a computerized online catalog, which can be accessed via the Northeastern web page.

Material not owned by the Monahan Library can be ordered electronically through inter-library loan. Periodical articles are generally procured within 2-3 business days. In addition, courier deliveries provide expedient shipment of inter-library loan books

and other materials from surrounding libraries. Inter-library loan services are free to Northeastern students.

Library staff members are available for reference assistance. Library instruction tutorials for the web catalog and databases are available at <http://www.njc.edu/Library/Tutorials>.

The library staff also works very closely with MLC staff to facilitate learning resources and services.

ADULT BASIC EDUCATION & COMMUNITY EDUCATION HIGH SCHOOL EQUIVALENCY DIPLOMAS

Adult Basic Education (ABE) is available to anyone 17 years of age or older who is not enrolled in another school under the department of education. ABE guides students in the development of their skills in reading, writing, mathematics, social studies, and science and prepares them to test for the General Education Development (GED) diploma.

Students begin a program of study leading to GED completion by attending an assessment and orientation day that places them at the appropriate beginning academic level. The length of time to GED completion varies from student to student. Students utilize traditional classroom and individualized instruction. Distance learning options are available for students who meet eligibility requirements. Childcare is available for adult education students enrolled in the ABE or GED preparation program.

The Adult Basic Education program is also designed to assist students in making the transition from GED completion to enrollment in degree or certificate programs at Northeastern. Contact 970-521-6793.

GED (HIGH SCHOOL EQUIVALENCY DIPLOMA)

The GED Testing Center, located in Hays Student Center, serves as an authorized center for the High School Equivalency Diploma Test for Northeast Colorado. Satisfactory scores on the GED tests will be accepted as the equivalent of the high school diploma. Students can call 877-EXAM-GED to schedule GED exams. Go to GED.com to create a profile or call (970) 521-6605.

ENGLISH AS A SECOND LANGUAGE

English as a Second Language (ESL) classes are available to students whose first language is not English. In small groups, students learn to speak, read, and write English. Students learn by conversation with their instructors and one another, by writing, and with the assistance of computer programs designed to help students acquire written English skills.

A language skills assessment places students in beginning, intermediate, and advanced ESL courses that are taught by experienced ESL instructors. Students from countries all over the world are enrolled in ESL classes and instructors strive to create an inviting, comfortable environment in which to learn. Distance learning options are available for students who meet eligibility requirements. Childcare is available for adult education students enrolled in the English as a Second Language program. In addition to English language skills, students are supported in exploring GED completion options or degree translation to transition to Northeastern certificate and degree programs.

In addition to English language skills, students may also pursue GED completion and transition to Northeastern certificate and degree programs.

THE STUDENT JUDICIAL SYSTEM

PHILOSOPHY AND RATIONALE

All students at Northeastern have equal rights and privileges as accorded by the State of Colorado. All student policies and residence hall policies are in the Student Handbook and all academic policies are in the College Catalog. All students have the responsibility to abide by all policy so stated in the handbook and catalog. All students should have copies of these publications and become familiar with their rights and privileges as well as their responsibilities.

Students at Northeastern will be treated with fundamental fairness in all academic and judicial processes that involve college policy. When a student enrolls at Northeastern a contractual agreement is made by the student and by the college. The college agrees to maintain and follow all policy and procedure as stated and will provide the academic requirements the student seeks. The enrolled student also agrees, by enrollment, to abide by college policy and procedure and the college will insure such policy and procedure is interpreted and enacted with fundamental fairness or the right of due process. All students have fundamental rights as stated in the Declaration of Student Rights.

The Vice President of Student Services, as the chief judicial officer of the college, will insure all student rights are protected and student policy is interpreted and implemented fairly. All jurisdictional decisions and action taken by the Vice President of Student Services and all student hearings will be based upon policy in the College Catalog and the Student Handbook. The student judicial process, to include due process, procedures, communication, hearings, and appeals will be enacted fairly for all students.

DECLARATION OF STUDENT RIGHTS

Consistent with properly adopted and disseminated policies and procedures and with applicable law and in consideration of students joining together in this community, the college and its representatives will seek to ensure the following rights for all students. These rights carry with them duties and responsibilities.

To protect and preserve the rights of others in the college community, they are therefore subject to those restrictions defined by law and the enforcement of college policies and procedures and of agreements entered into freely.

a. Expression and Inquiry

Every student has the right to freedom of opinion and expression on all subjects and is individually responsible for the consequences of any abuse of these freedoms. No student shall be prevented from exercising his or her right of self-expression or inquiry. The rights include the freedom to hold opinions without interference, to seek, receive, and impart information and ideas orally in writing, in print, and in the form of art, or through any chosen medium.

b. Participation, Association, and Assembly

Every student has the right to participate freely in intellectual, cultural, and political life of the college community, to enjoy the fellowship of his/her colleagues, and to assemble peaceably and associate.

c. Thought, Conscience, and Religion

Every student has the right to freedom of thought, conscience, and religion. This right includes the freedom to manifest one's religion or belief in discussion, practice, worship, and observance, either alone or in community with others.

No student shall be harassed or molested on account of his religious persuasion, profession, or practice, but may not under color of religion disrupt the order or safety of the campus community or infringe upon others civil or religious rights. No student may be compelled to attend or prohibited from attending any religious service or observance.

d. Privacy, Autonomy, Personal, and Intellectual

Security

All students have the right to be secure in their persons, dwellings, papers, communications, and effects. No student shall be subjected to interference with his/her privacy in the family, in the home, or in the autonomy of choice in consensual intimate relations, or in any private matter relevant to the personal identity and wellbeing of the individual. Every student has the right to protection of the moral and material interests resulting from any scientific, literary, or artistic production of which he/she is the author. No student shall be denied the right to take all reasonable and proportionate measures to protect his/her person.

e. Discipline and Due Process

In all disciplinary (judicial) proceedings students shall have the right to be informed of the accusation, to promptly receive a copy of the complaint, and to have access to relevant material to be introduced in order to guarantee the ability to prepare a defense. They shall have the right to be assisted without prejudice by an advisor, to have access to procedures for securing the appearance of reluctant as well as friendly witnesses, to examine all witnesses in disciplinary (judicial) hearings, and to receive a timely and impartial proceeding. No student may be compelled to testify against him or herself, although a negative inference may be drawn from any person's failure to respond to relevant questions in a judicial setting.

f. Equality of Rights and Equal Protection

Equality of rights and equal protection under the rules and regulations of the college shall not be abridged or denied because of race, color, creed, sex, marital status, personal appearance, age, national origin, political affiliation, physical or mental handicap, relationships, citizenship or lineage, sexual orientation, other personal beliefs and associations, or on the basis of the exercise of rights secured by the First Amendment of the United States Constitution.

g. Other Rights

This enumeration of rights shall not be construed so as to deny or disparage other rights held by students.

CODE OF STUDENT CONDUCTa. Rationale

The Student Code of Conduct's primary purpose is the basis for the student judicial process that protects the rights of all students and protects the campus community. Consistent with this purpose, reasonable efforts will be made to foster personal and social development of those students who are held accountable for violations of this code, student policy, and academic procedures.

b. Definitions

1. The term "faculty member" means any person hired by the college to conduct classroom activities.

2. The term "institution" and "college" means Northeastern, Sterling, Colorado.

3. The term "college official" includes any person employed by the college performing assigned administrative or professional responsibility. The term "impartial decision maker" refers to the individual/committee designated by the college president to hear student disciplinary appeals.

4. The term "student" means a person taking or auditing courses in a college course, on or off campus, full or part-time.

5. The term "member of the college community" includes any person who is a student, faculty member, college official or any other person employed by the college.

6. The term "organization" means a number of persons who have complied with college requirements for registration or are chartered student clubs with Associated Student Government.

7. The term "group" means a number of persons who are associated with each other and who have not complied with college requirements for registration as an organization.

8. The term "chief judicial officer" means the authorized college official assigned to administer the Student Code and the imposition and monitoring of sanctions, this usually is the Vice President of Student Services.

9. The term "judicial body" or "hearing board" means any person or persons authorized by the chief judicial officer (Vice President of Student Services) to determine whether a student has violated the Student Code and to recommend imposition of educational sanctions.

10. The term "day" refers to a calendar day unless otherwise noted in any communication. The term "workday" is sometimes used to set parameters for appeals and resolution of cases. These are actual days that the institution is open for business.

11. The term "policy" is defined as the written regulations of the college as found in the Student Code, the Student Handbook, the Residence Life Handbook, and the College Catalog.

12. The term "sanctions" refers to the assigned consequences of a violation of the Student Code of Conduct; these consequences range from educational performance activities to suspension from college.

13. The term "notice" refers to the written communication from a college official to an enrolled student regarding academic or educational decisions of the college. A notice is considered served when given by personal delivery or by certified mail to the last known address filed with the college. If notice is mailed the student is given three (3) additional days to respond.

14. The term "cheating" includes, but is not limited to:

1) use of any unauthorized assistance in taking quizzes, tests, or examinations; 2) dependence upon the aid or sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or 3) the acquisition (without permission) of tests or other academic material belonging to a member of the college faculty or staff.

15. The term "plagiarism" includes, but is not limited to, the use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use by another person or agency engaged in the selling of term papers or other academic materials.

16. The term "aggravated violation" means a violation which resulted or foreseeably could have resulted in significant damage to persons or property or which otherwise posed a threat to the stability and continuance of normal college sponsored activities.

17. The term "distribution" means sale or exchange for personal profit.

18. The term "reckless conduct" means action or conduct by any member of the college community, which creates a clear risk of harm to persons or property or would disrupt the lawful activities of others, including studying, teaching, or any other college work or college sponsored activity.

19. The term "college premises" means buildings or grounds owned, leased, operated, controlled, or supervised by the college.

20. The term "weapon" means any object or substance designed to inflict a wound, cause injury, or incapacitate, including, but not limited to, all firearms, pellet guns, switchblade knives, knives with blades five or more inches in length, and chemicals such as "Mace" or tear gas. Common objects not designed or intended as a weapon, but used in a harmful and threatening manner can be considered a weapon, i.e. baseball bat.

21. The term "college sponsored activity" means any activity on or off campus which is initiated, aided, financed, authorized, or sponsored by the college.

22. The term "abusive speech or writing" means speech or other means of communication that:

a. Is intended to insult or stigmatize an individual or a small number of individuals based upon their sex, race, color, handicap, religion, sexual orientation or national/ethnic origin.

b. Is addressed directly to the individual(s) whom it insults or stigmatizes.

c. Makes use of insulting or fighting words or symbols. Fighting words are those, which by their very utterance inflict injury or tend to incite immediate breach of the peace and are commonly understood to convey direct or visceral hatred or contempt for persons on the basis of sex, race, color, handicap, religion, sexual orientation, or national/ethnic origin.

23. The term “student harassment” means an unwelcome verbal or physical or discriminatory act specifically directed toward an individual student with the intent to cause emotional or physical distress or to influence, control, or intimidate that student.

PROSCRIBED CONDUCT

A. Jurisdiction of the College

The Student Code of Conduct generally pertains to student conduct on the college premises and conduct off-campus involving college sponsored and college sanctioned activities and any off-campus conduct for an enrolled student that adversely affects the educational interests of the any student, the staff, the college, and the community.

B. Conduct - Rules and Regulations

Conduct that violates student rights and freedoms and is subject to disciplinary action includes, but is not limited to:

1. Academic Misconduct: Plagiarizing, cheating, or committing any other form of academic misconduct including, but not limited to, unauthorized collaboration, falsification of information, and/or helping someone else violate reasonable standards for academic behavior. Students who engage in any type of academic dishonesty are subject to both academic consequences as determined by the instructor and to disciplinary action as outlined in the Northeastern disciplinary procedures.
2. Disruptive Behavior: Engaging in any disruptive behavior that negatively affects or impedes teaching or learning (regardless of mode of delivery or class setting) or disrupts the general operation of the college.
3. Deceptive Acts: Engaging in deceptive acts including, but not limited to: forgery, falsification, alteration, misrepresentation, non-disclosure, or misuse of documents, records, identification, and/or educational materials.
4. Conduct that is Detrimental to College or to Safety: Conduct that is deemed detrimental, harmful, and/or damaging to the college and/or that jeopardizes the safety of others as determined by the Northeastern Vice President of Student Services or designee. Examples include, but are not limited to, slamming doors, throwing chairs, and/ or defacing of college property or property of others.
5. Physical/Non-physical Abuse:
 - a. Physical abuse or conduct that threatens or endangers another person’s health or safety.
 - b. Non-physical abuse, threats, intimidation, coercion, influence, or any unwelcome conduct in any form that is sufficiently severe, pervasive, or persistent that it alters the conditions of the learning environment or employment.
 - c. Knowingly falsifying, publishing, or distributing, in any form, material that tends to impeach the honesty, integrity, virtue, or reputation of another person.
6. Harassment and/or Discrimination: Discrimination or harassment on the basis of sex/gender, race, color, age, creed, national or ethnic origin, physical or mental disability, veteran status, pregnancy status, religion, or sexual orientation.

7. Sexual Misconduct: Sexual Misconduct offenses include, but are not limited to, Sexual Harassment, Non-Consensual Sexual Contact (or attempts to commit same), Non-Consensual Sexual Intercourse (or attempts to commit same), and/or Sexual Exploitation. (See SP 4-120a for more information: <http://www.cccs.edu/SBCCOE/Policies/SP/PDF/SP4-120a.pdf>)

8. Weapons: Possession or distribution of any unauthorized firearms, ammunition, explosives, fireworks, and/or other dangerous weapons (or chemicals/flammable liquids) or use/threat of use of any instrument (including, but not limited to, paint ball guns, pellet guns, air soft guns, bow and arrows, knives) as a weapon to intimidate, harass, or cause harm to others. (See SP 19 CCCS President’s Procedure on Violence and Firearms on Campus.)

9. Narcotics/Alcohol: Use, being under the influence, manufacturing, possession, cultivating, distribution, purchase, or sale of alcohol and/or drugs (illegal and/or dangerous or controlled substance), and/or alcohol/drug paraphernalia while on college owned or college controlled property and/or at any function authorized or supervised by the college and/or in state owned or leased vehicles.

Note: Although possession and use of marijuana consistent with the requirements of the Colorado Constitution is no longer a crime in the State of Colorado the possession and use of marijuana remains illegal under federal law. Consistent with federal law, including the Controlled Substances Act and the Drug Free Schools and Communities Act, the use and/or possession of marijuana continues to be prohibited while a student is on college owned or college controlled property and or any function authorized or supervised by the college and/or in state owned or leased vehicles.

10. Dress & Hygiene: Dress or personal hygiene that fails to meet the established safety or health standards of specific classes or activities offered by the college.

11. Leaving Children Unattended: Leaving children unattended or unsupervised in campus buildings or on campus grounds unless enrolled or participating in authorized campus activities.

12. Violation of Laws, Directives, and Signage:

- a. Violating any municipal, county, state, or federal law that adversely impacts the conditions of the educational or employment environment.
- b. Violations of college traffic and parking rules, regulations, or signage.
- c. Damage to or falsely using fire alarms and/or fire extinguishers.
- d. Creating an intentional obstruction that unreasonably interferes with freedom of movement, either pedestrian or vehicular. This includes, but is not limited to, leading or inciting to disrupt college activities. Failure to comply with the lawful directives of College employees acting within the scope of their duties, including those directives issued by a College administrator to ensure the safety and well-being of others.
- e. Violations of college policies, protocols, procedures, or signage.

13. **Illegal Gambling:** Participation in illegal gambling activities on college owned or college controlled property and/or any function authorized or supervised by the college and/or in state owned or leased vehicles.

14. **Unauthorized Entry and/or Unauthorized Possession:** Entry into or use of any building, room, or other college- owned or college-controlled property, grounds, or activities without authorized approval. This also includes, but is not limited to, the unauthorized possession, duplication, or use of college keys, lock combinations, access codes, and access cards and/or credentials and/or propping open or tampering with doors/windows.

15. **Unacceptable Use of College Equipment, Network, or System:** Unacceptable uses of any college-owned or operated equipment, network or system including, but not limited to: knowingly spreading computer viruses, reposting personal communications without author's consent, copying protected materials, using the network for financial or personal gain, commercial activity, or illegal activity, accessing the network using another individual's account, unauthorized downloading/uploading software and/or digital video or music, downloading/uploading, viewing, or displaying pornographic content, or any other attempt to compromise network integrity.

16. **Unauthorized Pets/Animals:** Possession of any unauthorized pet or animal, excluding trained service animals and/or assistance animals, while on college-owned or college-controlled property.

17. **Tampering with Student Organization, Election, or Vote:** Tampering with the process of any college recognized student organization, election, or vote.

18. **Group or Organization Conduct:** Students who are members of a college recognized student organization or group and commit a violation of SCOC may be accountable both as an individual and as a member of the student organization.

19. **Abuse of the Student Disciplinary and/or Grievance Procedure:** Abuse of the Student Disciplinary and/or Grievance Procedure includes, but is not limited, to the following:

- a. Disruption or interference with the orderly conduct of the student disciplinary / grievance procedure.
- b. Falsification, distortion, or misrepresentation, or knowingly pursuing malicious, frivolous, or fraudulent charges.
- c. Attempting to discourage an individual's proper participation in, or use of, the student disciplinary/ grievance procedure.
- d. Attempting to influence the impartiality of a participant and/or the student disciplinary/grievance procedure.
- e. Harassment (verbal or physical) and/or intimidation of a participant in the student disciplinary/grievance procedure.
- f. Failure to comply with directives and/or sanctions imposed under student disciplinary/grievance procedure.
- g. Influencing or attempting to influence another person to commit an abuse of the student disciplinary/ grievance procedure.
- h. Engaging in retaliatory acts in any form against any person or person(s) involved in the student disciplinary/ grievance procedure

20. Any act or omission committed on or off campus that constitutes a serious criminal offense. A serious criminal offense is hereby defined as being an action which is a felony under Colorado

law and which indicates that the student constitutes a substantial danger to the safety or property of the college or members of the community.

21. **Unauthorized Entry into College Events:** Entering or attempting to enter any college-sponsored activity without proper credentials for admission.

Please note: In most circumstances, the college will treat attempts to commit code of conduct violations as if those attempts had been completed. Violations of the above may result in, but are not limited to, fines, restitution, community service, and/or disciplinary procedures.

JUDICIAL AUTHORITY

a. The chief judicial officer of the college shall make all decisions regarding violations of the Student Code of Conduct and may delegate enforcement and imposition of sanctions to other qualified college staff as required by their assigned job.

b. The chief judicial officer of the college will insure all students have the right of due process as described in the Student Handbook.

c. The chief judicial officer shall determine the composition of hearing boards as dictated by the president of the college and shall insure all college hearing boards are conducted consistent within the Student Code, Student Due Process, and approved hearing board procedure.

d. Decisions made by a hearing board, chief judicial officer, or appointed designee shall be final, pending the normal appeal process.

e. Judicial authority is part of the responsibilities of the residence hall director's job; this person has the authority to make immediate decisions regarding student misconduct and violation of the Student Code of Conduct. The residence hall director has the authority to impose sanctions and procedures to insure the Student Code of Conduct is interpreted and enforced fairly for all students.

f. The Director of Student Life has the authority to make immediate decisions regarding student misconduct and violation of the Student Code of Conduct for resident students. The Director of Student Life has the authority to impose sanctions and procedures to insure the Student Code of Conduct is interpreted and enforced fairly for all students. Referrals can be made to the Director of Student Life before or after a residence hall director has assigned judicial procedures/sanctions.

g. A faculty member has the judicial authority to conduct their teaching assignment free of student misconduct and interference. The faculty member has the authority to make immediate decisions to insure the academic process continues unhindered and all students do not violate the code for cheating and plagiarism.

COLLEGE SANCTIONS

a. Dismissal

Dismissal is the permanent separation of the student from the college. Notification will appear on the student's transcript. The student will be barred from the college premises. Dismissal from college requires a College Hearing Board review with an optional review by the President to alter, defer, or withhold dismissal.

b. Suspension

Suspension is separation of the student from the college for a specific period of time (no longer than two semesters). Permanent notification will appear on the student's transcript. The student may not participate in any college-sponsored activity and may be barred from college premises. The chief judicial officer enacts suspension and this action may be reviewed by an appeal to the College Hearing Board.

c. Interim Action

The chief judicial officer or a designee may suspend a student for an interim period pending judicial proceedings or medical evaluation. Interim action can be enacted any time without prior notice. Interim action can be enacted when there is reasonable evidence that the continued presence of the student on the college campus and enrolled in college classes poses a substantial threat to themselves, other students, faculty, any college official, or the stability and continuance of normal college functions.

d. Disciplinary Probation

Disciplinary Probation restricts a student from representing the college in any extracurricular activity or run for/hold office in any student group or organization. Institutional scholarship support will be withheld as well as additional restrictions or conditions may be imposed. There are three levels of Disciplinary Probation with distinct sanction differences.

e. Disciplinary Warning

Disciplinary Warning communicates to the student that further misconduct will result in stricter judicial sanctions. A warning shall be used only once per term.

f. Restitution

The student is required to make payment to the college or other persons, groups, or organizations for damages incurred as a result of a violation of this code. Restitution is required for vandalism, theft, payment for repair, cleaning charge, services rendered, and loss and destruction of equipment. Fines for violations are considered restitution.

g. Eviction

A student residing in a residence hall may be evicted as a result of a specific violation of this code. Eviction requires immediate removal of all belongings and completion of checkout procedures with maintenance and housing.

Monetary penalties will be assessed to include and not limited to, breakage of contract fee, general hall or room damages, and room deposit. An evicted student may continue present enrollment in classes, but will be restricted from one or all residence halls and/or the college cafeteria. The chief judicial officer must give notice of eviction.

h. Educational Sanctions

Educational sanctions may be imposed by the Residence Hall Director, Director of Student Life, or Vice President of Student Services in addition to sanctions assigned by policy. The monitoring of the completion of educational sanctions will be centrally reported to the Vice President of Student Services office for follow up and reporting.

STUDENT DISCIPLINARY PROCEDURES

Decision

The Vice President of Student Services or designee shall receive all allegations of student misconduct and investigate the complaints, which includes meeting with the student to give him/her the opportunity to respond to the allegations of misconduct.

If the allegations of misconduct are discrimination and/or harassment based on federal or state civil rights laws the college will investigate those incidents through the Civil Rights Grievance and Investigation Process (3.18).

Once the investigation is complete, either through this process or the Civil Rights Grievance and Investigation process, the Chief Student Services Officer/CSSO or designee shall render a sanction decision.

The CSSO or designee may decide that the charges can be disposed of administratively by mutual consent of the parties involved on a basis acceptable to them. If an administrative resolution is not achieved the CSSO or designee shall issue a decision which determines whether the alleged conduct occurred or whether the conduct violated the Code of Conduct or College procedures and then impose a sanction(s) if appropriate.

The student shall receive written notice of the decision and be advised of his/ her right to appeal the Decision, subject to the grounds below, by filing a written appeal with the CSSO or designee within seven days of service of the Decision.

Appeal

In the event of an appeal the CSSO or designee shall give written notice to the other party (e.g., if the accused student appeals, the appeal is shared with the complainant who may also wish to file a response) and then the CSSO or designee will draft a response memorandum (also shared with all parties). All appeals and responses are then forwarded to the appeals officer or committee for initial review to determine if the appeal meets the limited grounds and is timely. The original finding and sanction will stand if the appeal is not timely or substantively eligible and the decision is final. If the appeal has standing, the documentation is forwarded for consideration. Because the original finding and sanction are presumed to have been decided reasonably and appropriately the party appealing the decision must specifically cite the error(s) in the original determination on which the appeal is based.

The ONLY grounds for appeal are as follows:

1. A material procedural or substantive error occurred that significantly impacted the outcome of the hearing (e.g. substantiated bias, material deviation from established procedures); which must be explained in the written appeal.
2. To consider new evidence unavailable during the investigation or hearing that could substantially impact the original finding or sanction. A summary of this new evidence and its potential impact must be included in the written appeal as well as the reasons the new evidence was not available during the original proceeding.

The appeals committee shall be appointed by the Northeastern President and shall consist of one (1) administrator, three (3) faculty members (none of whom shall be a current or past instructor or advisor of the student filing the appeal), and one (1) student representative (an officer from the Associated Student Government). If the appeals officer or committee determines that a material procedural or substantive error occurred, it may return the complaint to the CSSO or designee with instructions to reconvene to cure the error. In rare cases where the procedural or substantive error cannot be cured by the CSSO or designee, in cases of bias, the appeals officer or committee may order a new hearing be held by a different individual acting in the place of the designated CSSO or designee. The results of a reconvened hearing cannot be appealed. The results of a new hearing can be appealed, once, on the two applicable grounds for appeals.

If the appeals officer or committee determines that new evidence should be considered it will return the complaint to the CSSO or designee to reconsider in light of the new evidence only. If the subject matter pertains to discrimination and/or harassment pursuant to 3.18 of the Northeastern Student Handbook the appeals officer or committee will return the complaint to the Title IX Coordinator to reconsider in light of the new evidence, only. The reconsideration of the CSSO, designee, or Title IX Coordinator is not appealable.

The procedures governing the hearing of appeals include the following:

- All parties should be timely informed of the status of requests for appeal, the status of the appeal consideration, and the results of the appeal decision.
- If the appeals officer or committee determines there is new evidence or error in the original proceeding every opportunity to return the appeal to the CSSO or designee for reconsideration (remand) should be pursued
- Appeals are not intended to be full re-hearings of the complaint. In most cases appeals are confined to a review of the written documentation or record of the original hearing and pertinent documentation regarding the grounds for appeal.
- An appeal is not an opportunity for an appeals officer or committee to substitute their judgment for that of the CSSO or designee merely because they disagree with its finding and/or sanctions.
- Appeals decisions are to be deferential to the original decision, making changes to the findings only where there is clear error and a compelling justification to do so.
- Sanctions imposed are implemented immediately unless the CSSO or designee stays their implementation in extraordinary circumstances, pending the outcome of the appeal.
- The appeals officer or committee will render a written decision on the appeal to all parties within four (4) days from receiving the appeal request. The committee's decision to deny appeal requests is final.

Special Discipline Process Provisions

- In the event that the student is under the age of eighteen or incapacitated, he or she may have an advisor present to assist him/her in presenting his/her case.
- Students do not have the right to be represented by an attorney or law student during these proceedings except in the case where civil or criminal actions concerning the student are pending and in that case the attorney's role shall be advisory only.
- The student is responsible for presenting his/her own case and, therefore, advisors are not permitted to speak or to participate directly in any hearing except when the student is under the age of eighteen or incapacitated.
- Student shall have the right to identify documents, witnesses, and other material he/she would like the CSSO or designee to review before making a final decision.
- Any hearing held shall be conducted in private unless all parties agree otherwise.
- A record of the hearing should be maintained by the CSSO or designee.
- If student has a disability and would like to request an accommodation to assist him/her through the discipline process they may do so by informing the CSSO or designee. The CSSO or designee will then work with disability support services to accommodate the request.

- Jurisdiction-College disciplinary proceedings may be instituted against a student charged with violation of a law if the violation occurred at the College or college- sanctioned activities or was of such a nature to have an impact on the college and the violation is also a violation of the college's student code of conduct.
- Proceedings under this procedure may be carried out prior to, simultaneously with, or following civil or criminal proceedings off-campus.

- Standard of proof-the college will use the preponderance of evidence standard in the disciplinary proceedings, meaning the college will determine whether it is more likely than not a conduct code was violated.

- All sanctions imposed by the original decision maker will be in effect during the appeal. A request may be made to the CSSO or designee for special consideration in exigent circumstances, but the presumptive stance of the institution is that the sanctions will stand.

Graduation, study abroad, internships/externships/clinical placements, etc. do not, in and of themselves, constitute exigent circumstances and students may not be able to participate in those activities during their appeal. In cases where the appeal results in reinstatement to the institution or of privileges all reasonable attempts will be made to restore the student to their prior status, recognizing that some opportunities lost may be irretrievable in the short term.

- The procedural rights afforded to students above may be waived by the student.

Retaliatory Acts

It is a violation of this procedure to engage in retaliatory acts against any employee or student who reports an incident(s) of code of conduct violations or any employee or student who testifies, assists, or participates in the discipline proceeding, investigation, or hearing relating to such allegation(s) of code of conduct violations.

Revising this Procedure

CCCS reserves the right to change any provision or requirement of this procedure at any time and the change shall become effective immediately.

DUE PROCESS EXCEPTIONS

In special circumstances to preserve and protect the rights and privileges of the majority of students the Vice President of Student Services can waive the due process. The following are due process exceptions; they are general categories that give the college authority and the right to make a reasonable and fair decision regarding exceptions.

a. *Dangerous Acts*: If a student's conduct is dangerous and life-threatening to themselves and to other people the due process is waived.

b. *Mental Health*: If the student has exhibited impaired and irrational judgment and in the opinion of the Vice President of Student Services is unable to make decisions due to emotional or psychological reasons the due process is waived.

c. *Physical Health*: In the opinion of the Vice President of Student Services, if the student's health is or will be affected by the due process procedures the due process will be waived in best interest of the student. An expeditious hearing and the seven-day appeal requirement may be extended by request of the student or the Vice President of Student Services.

d. Students with Legal Summons: Students who are arrested for violation of a local, state, or federal law are still eligible for college student due process if such violation of law does not involve threatening the health, safety, rights, and privileges of other students. If the student is arrested and/or charged for physical acts of endangerment of others or for irrational behavior that could threaten other people, or the possibility of physical threat, the student's status may be decided by the college administration to protect other student's enrollment status and on campus residence.

e. Interim Action: is outlined in College Sanctions.

SAFETY & SECURITY ON CAMPUS

Your safety and well-being is paramount to us at Northeastern. We are committed to honoring each person's rights, striving for quality service and showing respect for all individuals, always acting with the highest integrity, while upholding the law.

- Provisions and efforts are made to protect individuals and to preserve property, by securing buildings, locking and supervising residence halls and observing campus activities. Nothing can improve everyone's safety and security better than for each individual to make prudent and reasonable choices and actions. Do not prop doors open and then leave them unattended, ever.
- Take time to learn how to access emergency services, and the proper steps to inform staff and the administration of incidents. Learn to be observant of what is going on around you (Situational Awareness), always know at least two of the safest and quickest egress routes - wherever you are. Know the names and even addresses of buildings that you frequent. Report any concerns or observations, unsafe or dangerous conditions or actions of others to **Campus Safety & Security at 970-521-6683**. Such awareness is your best protection against crime and accidents.
- Download the Northeastern Safety & Security mobile app, "NJC Alert" free of charge. Contact Campus Safety for additional information, training tools and resources. Be sure to check your Access account information for the proper contact information for Emergency Notifications and check the Campus Safety pages on the website as well.

The Coordinator of Campus Safety & Security is not a sworn Law Enforcement position and has no arrest authority. The Office of Campus Safety & Security works diligently to support a safe and secure environment for our students, visitors, faculty and staff so that they may enjoy and succeed in a comfortable learning environment, and to pursue their educational and personal goals. We work with the local city, county, and state law enforcement, Fire and Life Safety response resources. Notify Campus Safety & Security of any crimes that have been committed, and always dial 911 for any immediate life safety threat, medical or fire emergency. In compliance with the Student Right to Know and Campus Security Act of 1990, Northeastern annually publishes the ASR (Annual Security Report), which includes crime statistics, explanations of campus security support, policies and procedures, and topics such as drug and alcohol free campus, sexual assault prevention/response programs and other resources.

Northeastern also keeps a Daily Crime Log and Fire Log. A copy of the ASR is available for free, on request, and you may view the crime and fire logs at the Student Services or Campus Safety & Security Offices.

Please visit www.njc.edu/safety-and-security for more information.

NOTICE OF PROHIBITION AGAINST ENROLLMENT IN STATE-SUPPORTED INSTITUTIONS OF HIGHER EDUCATION OF PERSONS CONVICTED OF RIOTING OFFENSES

Under Colorado law no person shall be enrolled in a state-supported institution of higher education for a period of twelve months following the date of a guilty verdict, guilty plea, no contest plea, a deferred judgement, or sentence for inciting riot, arming rioters, or engaging in a riot.

VOTER REGISTRATION

Northeastern has institutionalized voter registration through a variety of promotional and educational programs and availability of voter registration forms across campus. Students are encouraged to register and to vote.

The forms are available in numerous offices, classrooms, residence halls, and the library.

For more information, see www.registertovote.org.

GENERAL EDUCATION AND GUARANTEED TRANSFER COURSES

GENERAL EDUCATION

The outcomes of general education are to provide coursework, which will help students develop certain capabilities and insights, including the ability to think and to communicate clearly and effectively. In addition, students should be able to formulate valid concepts, analyze arguments, and define and orient themselves to their world. General education should lead to self-understanding and a better understanding of one's role as a citizen. General education is "general" in several clearly identifiable ways: it is not directly related to a student's formal technical, vocational, or professional preparation, it is a part of every student's course of study regardless of the area of emphasis, and it is intended to impart common knowledge, intellectual concepts, and attitudes, which every educated person should possess.

GUARANTEED TRANSFER COURSES

Colleges and universities in Colorado have identified general education courses in various categories and have guaranteed to accept these in transfer between institutions. We refer to these as GT or GTP (Guaranteed Transfer or GT Pathways) courses. Nearly 200 lower-division general education courses in 20 subject areas have been approved for guaranteed transfer. Northeastern offers many of these courses on campus. These are listed in *Italics*. If not, they may be available as an online course through CCC Online or at another Community College in Colorado. These courses must be successfully completed ("C" or better grade) in order to transfer to other institutions.

Some courses apply to all degrees (AA, AS, AGS) and some only apply to Associate of Arts (AA) and Associate of General Studies (AGS) degrees. These are indicated in the list below. Students should work with their advisor to select the general education courses that best fit their program of study. More information on guaranteed transfer courses can be found on the Colorado Department of Higher Education website. Classes in *Italics* indicate a course is generally offered at least once every other year. Most are offered every year, but some rotate on every other year basis with other courses.

Colorado Community College System Guaranteed Transfer Courses for General Education

Communication (CO1)

ENG 121 English Composition I..... 3
ENG 131 Technical Writing.....3

Communication (CO2)

ENG 122 English Composition II..... 3

Communication (CO3)

ENG 201 Composition III: Writing for Public Discourse.....3
ENG 265 Writing About History.....3

Mathematics (MA1)

MAT 120 Mathematics for Lib. Arts (AA & AGS only) 4

MAT 121 College Algebra..... 4
MAT 122 College Trigonometry..... 3
MAT 123 Finite Mathematics (AA & AGS only).....4
MAT 125 Survey of Calculus (AA & AGS only).....4
MAT 135 Introduction to Statistics (AA & AGS only)..... 3
MAT 166 Pre-Calculus (AA & AGS only).....5
MAT 201 Calculus I 5
MAT 202 Calculus I..... 5
MAT 203 Calculus III..... 4
MAT 204 Calculus III with Engineering Applications.....5
MAT 215 Discrete Mathematics.....4
MAT 261 Differential Equations w/Engineering App.4
MAT 265 Differential Equations.....3

Physical & Life Sciences (SC1)

AGY 240 Introductory Soil Science..... 4
ANT 111 Biological Anthropology.....4
AST 101 Planetary Astronomy I..... 4
AST 102 Stellar Astronomy II..... 4
BIO 104 Biology: A Human Approach..... 4
BIO 105 Science of Biology.....4
BIO 111 General College Biology I..... 5
BIO 112 General College Biology II..... 5
BIO 201 Human Anatomy & Physiology I..... 4
BIO 202 Human Anatomy & Physiology II.....4
BIO 204 Microbiology.....4
BIO 208 General College Microbiology.....5
BIO 220 General Zoology.....5
BIO 221 Botany..... 5
BIO 224 Genetics..... 4
CHE 101 Introduction to Chemistry I..... 5
CHE 102 Introduction to Chemistry II.....5
CHE 105 Chemistry in Context..... 5
CHE 111 General College Chemistry I..... 5
CHE 112 General College Chemistry II.....5
ENV 101 Intro to Environmental Science..... 4
GEO 111 Physical Geography – Landforms w/lab.....4
GEO 112 Physical Geography - Weather & Climate.....4
GEY 111 Physical Geology..... 4
GEY 112 Historical Geology..... 4
GEY 135 Environmental Geology.....4
MET 150 General Meteorology.....4
NRE 251 General Oceanography I..... 4
PHY 105 Conceptual Physics.....4
PHY 107 Energy Science & Technology (AA & AGS only).....4
PHY 111 Physics: Algebra-Based I.....5
PHY 112 Physics: Algebra-Based II.....5
PHY 211 Physics: Calculus-Based I..... 5
PHY 212 Physics: Calculus-Based II.....5
SCI 105 Science in Society.....3
SCI 155 *Integrated Science I (AA & AGS only)..... 4
SCI 156 *Integrated Science II (AA & AGS only)..... 4

*Note: SCI 155 & SCI 156 must both be taken to fulfill the Physical and Life Science requirement. If only one is taken, it will not fulfill a general education requirement.

Physical & Life Sciences (SC2)

AST 150 Astrobiology (AA & AGS only).....	3
AST 155 Astronomy Ancient Cultures.....	3
AST 160 Cosmology (AA & AGS only).....	3
BIO 103 Principles of Animal Biology (AA & AGS only).....	3
BIO 116 Intro to Human Disease (AA & AGS only).....	3
ENV 110 Natural Disasters (AA & AGS only).....	3
GEY 108 Geology of National Parks (AA & AGS only).....	3
SCI 105 Science in Society (AA & AGS only).....	3

Social & Behavioral Sciences

Select 3 courses, 1 must be History and no more than 2 courses from any one category. History (HI1):

HIS 101 Western Civilization: Antiquity to 1650.....	3
HIS 102 Western Civilization: 1650 to Present.....	3
HIS 111 The World: Antiquity to 1500.....	3
HIS 112 The World: 1500 to Present.....	3
HIS 121 U.S. History to Reconstruction.....	3
HIS 122 U.S. History since the Civil War.....	3
HIS 203 Civil War Era in American History.....	3
HIS 205 Women in World History.....	3
HIS 207 American Environmental History.....	3
HIS 208 American Indian History.....	3
HIS 215 Women in U.S. History.....	3
HIS 218 History of Science and Technology.....	3
HIS 225 Colorado History.....	3
HIS 235 History of the American West.....	3
HIS 236 U.S. History since 1945.....	3
HIS 243 History of Modern China.....	3
HIS 244 History of Latin America.....	3
HIS 245 U.S. in the World.....	3
HIS 246 History of Mexico.....	3
HIS 247 20th Century World History.....	3
HIS 249 History of Islamic Civilization.....	3
HIS 250 African American History.....	3
HIS 251 The History of Christianity in the World.....	3
HIS 255 The Middle Ages.....	3
HIS 259 Modern Middle East.....	3
HIS 260 U.S. Foreign Relations Policy.....	3

Economic & Political Systems (SS1):

AGE 102 Agriculture Economics.....	3
ECO 101 Economics of Social Issues.....	3
ECO 201 Principles of Macroeconomics.....	3
ECO 202 Principles of Microeconomics.....	3
ECO 211 Gender In The Economy.....	3
ECO 245 Environmental Economics.....	3
POS 105 Introduction to Political Science.....	3
POS 111 American Government.....	3
POS 125 American State and Local Government.....	3
POS 205 International Relations.....	3
POS 215 Current Political Issues.....	3
POS 225 Comparative Government.....	3

Geography (SS2):

GEO 105 World Regional Geography.....	3
GEO 106 Human Geography.....	3

Human Behavior & Social Systems (SS3):

AGR 260 World Interdependence: Population & Food.....	3
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ANT 101 Cultural Anthropology.....	3
ANT 102 Cultural Anthropology Lab.....	1
ANT 103 Archaeology Lab.....	1
ANT 104 Physical Anthropology Lab.....	1
ANT 107 Introduction to Archaeology.....	3
ANT 108 Archaeology of World Rock Artifacts.....	3
ANT 201 Introduction to Forensic Anthropology.....	3
ANT 215 Indians of North America.....	3
ANT 225 Anthropology of Religion.....	3
ANT 250 Medical Anthropology.....	3
COM 220 Intercultural Communication.....	3
CRJ 110 Introduction to Criminal Justice.....	3
ETH 200 Introduction to Ethnic Studies.....	3
JOU 105 Introduction to Mass Media.....	3
PSY 101 General Psychology I.....	3
PSY 102 General Psychology II.....	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 231 Positive Psychology.....	3
PSY 235 Human Growth & Development.....	3
PSY 238 Child Development.....	3
PSY 240 Health Psychology.....	3
PSY 249 Abnormal Psychology.....	3
PSY 265 Psychology of Personality.....	3
SOC 101 Introduction to Sociology I.....	3
SOC 102 Introduction to Sociology II.....	3
SOC 205 Sociology of Family Dynamics.....	3
SOC 207 Environmental Sociology.....	3
SOC 215 Contemporary Social Problems.....	3
SOC 216 Sociology of Gender.....	3
SOC 218 Sociology of Diversity.....	3
SOC 220 Sociology of Religion.....	3
SOC 231 Sociology of Deviant Behavior.....	3
SOC 237 Sociology of Death and Dying.....	3
WST 200 Introduction to Women's Studies.....	3
WST 225 Women & Social Action.....	3
WST 240 Goddesses & Women of the Ancient World.....	3
WST 249 Women's Sexuality.....	3

Arts & Humanities

Select three courses with no more than two courses from any one category.

Arts and Expression (AH1):

ART 110 Art Appreciation.....	3
ART 111 Art History Ancient to Medieval.....	3
ART 112 Art History Renaissance to Modern.....	3
ART 207 Art History 1900 to Present.....	3
DAN 125 History of Dance.....	3
ENG 221 Creative Writing I.....	3
MUS 120 Music Appreciation.....	3
MUS 121 Music History:Medieval through Classical Period..	3
MUS 122 Music History:Early Romantic Period to Present....	3
MUS 123 Survey of World Music.....	3
MUS 125 History of Jazz.....	3
THE 105 Theatre Appreciation.....	3
THE 108 Theatre Script Analysis.....	3
THE 211 Development of Theatre:Greek to Renaissance.....	3
THE 212 Development of Theatre:Restoration to Modern....	3
THE 215 Playwriting.....	3

Literature and Humanities (AH2):

HUM 103 Introduction to Film Art.....	3
HUM 115 World Mythology.....	3
HUM 121 Humanities: Early Civilization.....	3
HUM 122 Humanities: Medieval to Modern.....	3
HUM 123 Humanities: Modern World.....	3
LIT 115 Introduction to Literature.....	3
LIT 201 World Literature to 1600.....	3
LIT 202 World Literature after 1600.....	3
LIT 205 Ethnic Literature.....	3
LIT 211 American Literature to Civil War.....	3
LIT 212 American Literature after Civil War.....	3
LIT 221 British Literature to 1770.....	3
LIT 222 British Literature since 1770.....	3
LIT 225 Introduction to Shakespeare.....	3
LIT 246 Literature of Woman.....	3
LIT 259 Survey of African American Literature.....	3
LIT 268 Celtic Literature.....	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 115 World Religions – West.....	3
PHI 116 World Religions – East.....	3
PHI 205 Business Ethics.....	3
PHI 214 Philosophy of Religion.....	3
PHI 218 Environmental Ethics.....	3
PHI 220 Philosophy of Death and Dying.....	3

World Languages (AH4):

ASL 221 American Sign Language IV.....	3
ASL 222 American Sign Language V.....	3
FRE 211 French Language III.....	3
FRE 212 French Language IV.....	3
GER 211 German Language III.....	3
GER 212 German Language VI.....	3

ITA 211 Italian Language III.....	3
ITA 212 Italian Language IV.....	3
JPN 211 Japanese Language III.....	3
JPN 212 Japanese Language IV.....	3
RUS 211 Russian Language III.....	3
RUS 212 Russian Language IV.....	3
SPA 211 Spanish Language III.....	3
SPA 212 Spanish Language IV.....	3

Classes in *Italics* indicate the course is generally offered at least once every other year. Most are offered every year, but some rotate on every other year basis with other courses.

APPROVED A.A./A.S. ELECTIVES

Any course approved as a Guaranteed Transfer course (pages 46-47) can be used to fulfill the additional elective requirements for the Associate of Arts (A.A.) or Associate of Science (A.S.) degrees. In addition, the courses listed below may also be used as electives for the A.A. or A.S. degrees. Exceptions must be approved by the Vice President of Instructional Services.

AAA Any AAA courses numbered 100 or higher:

ACC 121 Accounting Principles I.....	4
ACC 122 Accounting Principles II.....	4
AGR 235 Precision AG Operations.....	3
AGR 236 Precision Farming Hardware.....	3
AGY 100 General Crop Production.....	4
AGY 110 Industrial Hemp Production.....	3
ANT Any course with an ANT Prefix	
ART Any course with an ART Prefix	
ASC 100 Animal Sciences.....	3
ASC 101 Animal Sciences Lab.....	1
ASC 102 Intro to Equine Science.....	4
ASC 105 Intro to Large Animal Anatomy.....	1
ASC 225 Feeds & Feeding.....	4
ASC 230 Farm Animal Anatomy & Physiology.....	3
AST Any course with an AST Prefix	
BIO Any course with a BIO Prefix	
BUS 115 Introduction to Business.....	3
BUS 116 Personal Finance.....	3
BUS 203 Intro to International Business.....	3
BUS 216 Legal Environment of Business.....	3
BUS 217 Bus Communication/Report Writing.....	3
BUS 226 Business Statistics.....	3
CHE Any course with a CHE Prefix except CHE 103	
CIS 118 Intro PC Applications.....	3
COM Any course with a COM Prefix	
CRJ Any course with a CRJ Prefix	
ECE 101 Intro to Early Childhood Education.....	3
ECE 102 Intro to Early Childhood Lab Tech.....	3
ECE 103 Guidance Strategies for Children.....	3
ECE 205 Nutrition, Health & Safety.....	3
ECE 220 Curriculum Develop: Methods/Tech.....	3
ECE 238 Child Growth & Development.....	3
ECE 240 Admin Early Child Care/Educ Pro.....	3
ECE 241 Admin Hum Rel/Early Child Prof.....	3
ECO Any course with an ECO Prefix	
EDU 221 Introduction to Education.....	3
EDU 234 Multicultural Education.....	3
EDU 261 Teaching, Learning & Technology.....	3
EGG Any course with an EGG Prefix.....	3
EMS 115 First Responder.....	3
EMT 121 EMT Fundamentals.....	3
ENG Any course with an ENG Prefix 100 or higher, except ENG 115	
OR ENG 131 Technical Writing I: CO1.....	3
ENV Any course with an ENV Prefix	
ETH Any course with an ETH Prefix	
FIN 201 Principles of Finance.....	3
FRE Any course with a FRE Prefix	
GEO Any course with a GEO Prefix	
GEY Any course with a GEY Prefix	
GIS 101 Introduction to GIS.....	3
GIS 110 Intro to Cartography for GIS.....	3

HIS Any course with a HIS Prefix	
HNR Honors Seminar.....	1
HPE Any course with an HPE Prefix	
HPR 102 CPR for Professionals.....	5
HPR 108 Dietary Nutrition.....	1
HPR 178 Medical Terminology.....	2
HPR 217 Kinesiology.....	4
HUM Any course with a HUM Prefix	
HWE 100 Human Nutrition.....	3
HWE 103 Community First Aid & CPR.....	1
HWE 111 Health and Fitness.....	3
HWE 117 Mental Health First Aid.....	1
HWE 124 Fitness and Wellness.....	2
HWE 237 Exercise/Nut & Body Composition.....	3
JOU Any course with a JOU Prefix	
LIT Any course with a LIT Prefix	
MAN 128 Human Relations in Organizations.....	3
MAN 200 Human Resource Management I.....	3
MAN 215 Organizational Behavior.....	3
MAN 216 Small Business Management.....	3
MAN 226 Principles of Management.....	3
MAR 111 Principles of Sales.....	3
MAR 216 Principles of Marketing.....	3
MAR 220 Principles of Advertising.....	3
MAT Any course with a MAT Prefix 112 or higher	
MGD 104 Videography.....	3
MGD 111 Adobe Photoshop I.....	3
MGD 112 Adobe Illustrator I.....	3
MGD 114 Adobe InDesign.....	3
MGD 116 Typography I.....	3
MGD 133 Graphic Design I.....	3
MGD 211 Adobe Photoshop II.....	3
MUS Any course with a MUS Prefix	
NUR - any 3 credits (must be 200 level)	3
PED Up to a maximum of 4 PED credits can be used as AA/AS electives.	
PHI Any course with a PHI Prefix	
PHY Any course with a PHY Prefix	
POS Any course with a POS Prefix	
PSY Any course with a PSY Prefix	
RAM 205 Principles of Range Management.....	3
REA 130 Applied & Technical Reading.....	2
REC Any course with a REC prefix	
SCI Any course with a SCI Prefix	
SOC Any course with a SOC Prefix	
SPA 111 Spanish Language I.....	5
SPA 112 Spanish Language II.....	5
THE Any course with a THE Prefix	
WST Any course with a WST Prefix	

STUDENT BILL OF RIGHTS

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

- (a) Students should be able to complete their Associate of Arts and Associate of Science Degree Programs in no more than sixty credit hours or their Baccalaureate Programs in no more than one hundred twenty credit hours unless there are additional degree requirements recognized by the commission.
- (b) A student can sign a two-year or four-year graduation agreement that formalizes a plan for that student to obtain a degree in two or four years unless there are additional degree requirements recognized by the commission.
- (c) Students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees.
- (d) Students have a right to know which courses are transferrable among the state public two-year and four-year institutions of higher education.
- (e) Students, upon completion of core general education courses, regardless of the delivery method, should have those courses satisfy the core course requirements of all Colorado public institutions of higher education.
- (f)) Students have a right to know if courses from one or more public higher education institutions satisfy the student's degree requirements.
- (g) A student's credit for the completion for the core requirements and core courses shall not expire for ten years from the date of initial enrollment and shall be transferrable.

TRANSFER/ DEGREES AND PROGRAMS

FOUR-YEAR COLLEGE OR UNIVERSITY TRANSFER CURRICULA

Transfer programs are offered to students planning to continue at a senior institution and earn the baccalaureate degree. Any student who expects to transfer to a senior college from Northeastern is advised to contact the registrar of the proposed college(s) or university(s) for specific information concerning course work to be taken while attending Northeastern. Students who desire to pursue academic programs other than those listed should consult a counselor or faculty advisor for assistance in planning an appropriate program of study. Final responsibility for choice of program and individual course selections, however, rests with the student.

Acceptance, number of transferable credits, and class standing are always at the discretion of the institution to which the student plans to transfer. Private and public four-year colleges and universities, as well as out-of-state institutions, reserve the right to handle each case individually and to evaluate all course work completed as it relates to their requirements.

The college reserves the right to substitute courses for those no longer offered, to modify course content at any time, to approve the substitution of one course for another in any program or degree, or to waive any course prerequisite or co-requisite.

STATEWIDE TRANSFER POLICY

Transfer of Associate of Arts and Associate of Science Degrees. Effective for students who enter in the Fall 2003 semester, Colorado public four-year higher education institutions will honor the transfer of an Associate of Arts (AA) degree and the Associate of Science (AS) degree earned at a Colorado community college. A student who earns an AA or AS degree at a Colorado public community college, including completing the state guaranteed general education courses, with a grade of C or better in all courses will transfer with junior standing into any arts and science degree program offered by a Colorado public four-year college.

The credits earned in the associate degree program will apply at minimum to 35 credit hours of lower division general education and 25 credit hours' additional graduation credits.

Since 1988, Colorado has had an operating two-plus-two transfer agreement that ensures a student who completes an AA or AS degree with a C or better in all courses will have junior standing, that is transfer 60 credit hours.

Because all liberal arts and sciences degrees are designed to be completed in 120 credit hours, a transfer student can complete a four-year degree in the same time as a native student, 120 hours. The receiving institution will evaluate credit for prior learning, Advanced Placement, and correspondence courses following its standard policy.

- **Transfer of General Education**
Colorado's state guaranteed general education courses are designed to allow students to begin their general education courses at one Colorado public higher education institution and later transfer to another without loss of general education credits. Colorado policy ensures that students who successfully complete a state guarantee general education course will receive transfer credits applied to graduation requirements in all majors at all public institutions unless a specific statewide articulation agreement exists.

The state's guaranteed general education curriculum is organized into five categories: communication, mathematics, fine arts and humanities, social and behavioral sciences, and physical and life sciences. To complete the Colorado state guaranteed general education core, students are required to take 35 to 37 semester credit hours and earn a C grade or better in each course. The guarantee is limited to the number of semester credit hours in each general education category.

- All state guaranteed general education courses in communication, mathematics, arts and humanities, social and behavior science, and physical and life science shall be identified by a state-assigned common number.

When evaluating a transfer student's transcript, each Colorado public higher education institution will apply state guarantee general education credits to its general education graduation requirements. Institutions may require additional general education graduation requirements beyond the 35 semester credit hours of state guaranteed general education credits. If an institution requires less than 35 general education credits the institution will accept in transfer the full 35 credits and apply these credits toward a student's graduation requirements.

- **Statewide Articulation Agreements**
An Articulation Agreement is a statewide agreement among all Colorado community colleges and all four-year public institutions who offer a particular degree program.

It is most commonly used for undergraduate professional programs that have specific course requirements established by accrediting or external licensure boards.

- **Transfer Guides:** Each institution is responsible for implementing a Transfer Guide for each CCHE-approved baccalaureate degree program unless a statewide articulation agreement is in place. The Transfer Guide shall be designed so that a student can complete a baccalaureate program in no more than 120 credit hours unless there are additional graduation requirements recognized by the Commission. The transfer guide defines the 25 credit hours required beyond the state guaranteed general education credits and may include required courses in the major or prerequisite courses for admission into the degree program. The transfer guides are to be on file with CCHE.

PROGRAMS OF EMPHASIS FOR UNIVERSITY TRANSFER

Northeastern offers a variety of junior college courses necessary to prepare students for successful transfer. Programs of emphasis include the following areas:

STATEWIDE ARTICULATION AGREEMENTS-Associate of Arts

The number of statewide articulation agreements continues to increase. These agreements between two and four-year institutions ensure the student will take appropriate and required courses and provide for a smooth transfer to the four-year level. Students must complete all the courses with a "C" or better and no course substitutions are allowed. If course work is over 10 years-old it is up to the college if they want to apply it to the degree, but there is no guarantee course work that old will transfer. That would be up to the receiving institution.

Information on transfer agreements can be found at:
highered.colorado.gov/transfer-degrees

A.A. STATEWIDE ARTICULATION AGREEMENT ANTHROPOLOGY CIP 240101 (ANTH)

Anthropology is the study of humans, past and present. Students pursuing this program of study will strive to understand the complexity of human cultures and will draw and build on knowledge from the social and biological sciences as well as the humanities and physical sciences. A central concern of anthropologists is the application of knowledge to the solution of human problems.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	3-4	*One 3 <u>or</u> 4 credit GT MA1 course, prefer MAT 135
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	8	BIO 111 <u>or</u> CHE 101 <u>or</u> 111
TOTAL	32-33	
Additional Required Courses	Credits	
	3	COM 115 <u>or</u> 125 <u>or</u> 220
	3	ANT 101
	3	ANT 107
	4	ANT 111
	3	One GT course from AH1, AH2, AH3 <u>or</u> AH4
	3	One GT course in SS2 <u>or</u> SS3
	3	One GT Anthropology course from SS3
TOTAL	22	
Electives	Credits	
Total	5-6	
TOTAL	60	

*Some receiving institutions require a lab attached to this course (ANT 111 - Physical Anthropology); please consult with the receiving institution.

Required Electives (5 credits)

Consult with a Northeastern Advisor and select 5 credits based on the specific articulation agreement and transfer institution requirements.

*Please consult with a Northeastern advisor in selecting the appropriate math course as some colleges require a specific math course.

A.A. STATEWIDE ARTICULATION AGREEMENT ART HISTORY CIP 240101 (ATHD)

Art history is the study of art throughout the ages. The purpose of this type of history is to not only understand and appreciate certain pieces of art, but also the artists that created them. An art historian studies the different types and styles of art and artists throughout history and is often in a position to help others understand art better as well. Some art historians also try to preserve and restore pieces of art that have been damaged. Performing these duties often requires artistic abilities since they will need to recreate these pieces. Generally, a degree in art history will often help you secure employment in museums or art galleries. These types of organizations will often hire art history majors to obtain pieces of art and arrange exhibits. Some other possible careers for art history majors include university professors, archivists, museum registrars, museum technicians, preservationists, and art restorers.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	3-4	One 3 <u>or</u> 4 credit GT MA1 course, prefer MAT 120
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4 except the Art courses listed below
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	10	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	31-32	
Additional Required Courses	Credits	
	3	ART 111
	3	ART 112
	3	ART 121
	3	ART 131
	3	ART 132
	3	ART 207
TOTAL	18	
Electives	Credits	
Total	10-11	
TOTAL	60	

Required Electives (10-11 credits)

Consult with a Northeastern Advisor and select 10-11 credits of courses listed on the specific articulation agreement and transfer institution requirements.

A. A. STATEWIDE ARTICULATION AGREEMENT BUSINESS CIP 240101 (BSTR)

Northeastern Business Transfer program is designed for the student with future goals of obtaining a baccalaureate degree. The transfer student can obtain an Associate of Arts degree with an emphasis in Business. The degree program contains the necessary general education courses and core business courses that enables a student to fulfill the first two years of a four-year business degree.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	8	MAT 121 <u>OR</u> MAT 123 & MAT 125 <u>or</u> higher calculus course
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	ECO 201 & ECO 202
Natural & Physical Sciences	8	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	37	
Additional Required Courses	Credits	
	8	ACC 121 & 122
	3	BUS 115
	6	BUS 216 & 217
	3	BUS 226
	3	COM 115
TOTAL	23	
TOTAL	60	

Recommended course:

CIS 118 Intro to PC Applications.....3

A. A. STATEWIDE ARTICULATION AGREEMENT COMMUNICATION CIP 240101 (COMD)

The communication program at Northeastern gives students the introductory level course work required for most degrees. These courses provide students with insight into public presentation. This course work will benefit those students who wish to pursue careers in broadcasting, journalism, politics, law, public service, and education.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	3	One GT MA1 course, prefer MAT 120
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4 from two different categories
History	3	One GT HI1 course
Social & Behavioral Sciences	6	COM 220 & one GT SS1, SS2 <u>or</u> SS3 course
Natural & Physical Sciences	7	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	31-32	
Additional Required Courses	Credits	
	3	COM 115
	3	COM 125
	3	COM 217
	6	Two GT courses from either HI1 <u>or</u> SS1, SS2 <u>or</u> SS3
	3	One additional COM course
TOTAL	18	
Electives	Credits	
Total	10-11	
TOTAL	60	

Required Electives (10-11 credits)

Consult with a Northeastern Advisor and select 10-11 credits from courses listed on the specific articulation agreement and transfer institution requirements.

Please Note: Additional COM courses beyond the 4 courses (12 credit hours) identified above in the Additional Required Courses section may not count toward the Communication major at the receiving four-year institution.

A.A. STATEWIDE ARTICULATION AGREEMENT CRIMINAL JUSTICE CIP 240101 (CRJT)

Criminal Justice covers a wide range of career and professional fields including law enforcement, investigations, corrections, probation/parole, and administration of justice to name a few. Career opportunities are generally available from small rural communities to metropolitan areas, and everywhere in between. This *Degree with Designation* prepares students to transfer to four-year colleges and universities provided they complete all aspects of the degree.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	3-4	*One 3 <u>or</u> 4 GT MA1 course, MAT 135 preferred
Arts & Humanities	6	Two GT courses from two different categories: AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	SOC 101 & one GTSS3 course
Natural & Physical Sciences	7-8	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	31-33	
Additional Required Courses	Credits	
	3	COM 115 or COM 125
	3	CRJ 110
	3	CRJ 125
	3	CRJ 145
	6	Two of the following: CRJ 127, 135, 205, 209, 230, 231, 235, 236, 257, 268
	9	Three of the following: ANT 201, CNG 258, COM 217, COM 225, POS 111, POS 125, PSY 207, PSY 217, PSY 226, PSY 249, SOC 231
TOTAL	27	
Electives	Credits	
Total	0-2	
TOTAL	60	

*Please consult with a Northeastern advisor in selecting the appropriate math course needs, as some colleges require a specific math course.

A.A. STATEWIDE ARTICULATION AGREEMENT EARLY CHILDHOOD TEACHER EDUCATION

CIP 240101 (ECTD)

For those who want the opportunity to provide a positive influence on the lives of children and their families, early childhood is a fascinating field in which to work. In addition to the A.A.S. degree and certificate programs in early childhood specified later in this catalog, a student can earn the A.A. in preparation for transfer into a four-year program.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122
Mathematics	4	MAT 120
Arts & Humanities	6	ART 110 <u>or</u> MUS 120 <u>or</u> THE 105 & LIT 115 <u>or</u> LIT 255
History	3	HIS 121 <u>or</u> HIS 122
Social & Behavioral Sciences	6	GEO 105 & PSY 101
Natural & Physical Sciences	8	SCI 155 & 156 – Must successfully pass both classes to satisfy the requirement
TOTAL	33	
Additional Required Courses	Credits	
	3	ECE 101
	3	ECE 102
	3	ECE 103
	3	ECE 220
	3	ECE 238
	3	ECE 256
TOTAL	18	
Electives	Credits	
Total	9	
TOTAL	60	

Required Electives (9 credits)

Consult with a Northeastern Advisor and select nine credits based on the specific articulation agreement and transfer institution requirements.

A.A. STATEWIDE ARTICULATION AGREEMENT ECONOMICS CIP 240101 (ECON)

The study of Economics prepares students for a variety of professions that emphasize the use of economics. Students who ultimately earn a bachelor's degree in Economics would most likely go on to obtain a graduate degree.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122
Mathematics	5	MAT 201
Arts & Humanities	9	Three GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	ECO 201 & ECO 202
Natural & Physical Sciences	8	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	37	
Additional Required Courses	Credits	
	3	MAT 135
TOTAL	3	
Electives	Credits	
Total	20	
TOTAL	60	

Required Electives (20 credits)

Consult with a Northeastern Advisor and select 20 credits based on the specific articulation agreement and transfer institution requirements.

A.A. STATEWIDE ARTICULATION AGREEMENT ELEMENTARY TEACHER EDUCATION

CIP 240101 (EMTD)

The elementary education program has specific general education and [Program Requirements](#) that prepare a student to transfer successfully to a four-year university's elementary education licensure program.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 (B or better required by some receiving institutions) & ENG 122
Mathematics	6	MAT 155 & 156
Arts & Humanities	3	One of the following: LIT 115, LIT 201, LIT 202, LIT 211 <u>or</u> LIT 221
History	3	HIS 121
Social & Behavioral Sciences	6	GEO 105 & POS 111
Natural & Physical Sciences	8	SCI 155 & 156 – Must successfully pass both classes to satisfy the requirement.
TOTAL	32	
Additional Required Courses	Credits	
	3	COM 115
	3	EDU 221
	3	PSY 238
TOTAL	9	
Electives	Credits	
Total	19	
TOTAL	60	

Required Electives (19 credits)

Consult with a Northeastern Advisor and select 19 credits based on the specific articulation agreement and transfer institution requirements. Please consult the web page listed at the top of this section to see which each receiving four-year institution will accept for electives.

A.A. STATEWIDE ARTICULATION AGREEMENT ENGLISH CIP 240101 (ENG D)

The study of English prepares students for a variety of professions that emphasize the use of language. Students who ultimately earn a bachelor's degree in English would be prepared to enter graduate studies in law, communications, media, and business.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & ENG 201
Mathematics	3-4	One 3 or 4 credit GT MA1 course, prefer MAT 120
Arts & Humanities	9	Three GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	HIS 121
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	7	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	34-35	
Additional Required Courses	Credits	
	3	COM 115 <u>or</u> 125 <u>or</u> 225
	15	Five GT Arts & Humanities Literature (LIT) courses from AH2. Note: Students are required to take a total of 5 LIT courses (15 credits), 4 of which must be at the 200-level.
TOTAL	18	
Electives	Credits	
Total	8	ENG 221 recommended
TOTAL	60	

Required Electives (8 credits)

Consult with a Northeastern Advisor and select 8 credits based on the specific articulation agreement and transfer institution requirements.

NOTE: GT-AH2 Literature (LIT) courses will not be accepted to fulfill this requirement.

A.A. STATEWIDE ARTICULATION AGREEMENT GEOGRAPHY CIP 240101 (GEOM)

Geography is the science which seeks to understand the Earth in all its natural complexities, not just where objects are, but how they have changed and come to be. It is the bridge between human and physical science.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & Aa GT CO-3 course
Mathematics	3-4	*One 3 or 4 credit GT MA1 course, prefer MAT 135
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	8	Two GT courses from SC1 <u>or</u> SC2 NOTE: <u>No</u> GEO prefix science courses; GEY 111 <u>not</u> recommended.
TOTAL	32-33	
Additional Required Courses	Credits	
	3	GEO 105
	3	GEO 106
	4	GEO 111
	4	GEO 112
TOTAL	14	
Electives**	Credits	
Total	13-14	
TOTAL	60	

Required Electives (13-14 credits)

Consult with a Northeastern Advisor and select 13-14 credits based on the specific articulation agreement and transfer institution requirements and in selecting the appropriate math course to take as some colleges require a specific math course.

** (Maximum of 6 (six) credits may be in GEO or GIS prefix.

A.A. STATEWIDE ARTICULATION AGREEMENT HISTORY CIP 240101 (HIST)

The History program at Northeastern provides students with cultural histories from Western and non-Western civilizations, Paleolithic era through modern times. Such experience provides students with a wealth of information that promises to enrich their personal and educational lives.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & Aa GT CO-3 course
Mathematics	3-4	One GT MA1 course, prefer MAT 120
Arts & Humanities	9	Three GT courses from AH1, AH2, AH3 <u>or</u> AH4 from at least two different categories
History	3	HIS 101 <u>or</u> HIS 111
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	7	Two GT courses from SC1 <u>or</u> SC2 (one must be with required laboratory)
TOTAL	34-35	
Additional Required Courses	Credits	
	3	COM 115 <u>or</u> 125
	3	HIS 102 <u>or</u> HIS 112
	3	HIS 121
	3	HIS 122
TOTAL	15	
Electives	Credits	
Total	10-11	
TOTAL	60	

Required Electives (10-11 credits)

Consult with a Northeastern Advisor and select 10-11 credits based on the specific articulation agreement and transfer institution requirements.

A.A. STATEWIDE ARTICULATION AGREEMENT MUSIC CIP 240101 (MUSD)

Northeastern offers several courses for students who are interested in the study of music. In addition to courses in music theory, music appreciation, and computer music, students may elect to pursue individualized music instruction or to participate in Northeastern's musical groups.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO -3 course
Mathematics	3	One GT MA1 course, prefer MAT 120
Arts & Humanities	6	MUS 121 & 122
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	7	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	31	
Additional Required Courses	Credits	
	3	MUS 110
	3	MUS 111
	2	MUS 112 & 113
	2	MUS 131
	2	MUS 141 & 142
	2	MUS 151 & 152
	3	MUS 210
	2	MUS 212 & 213
	2	MUS 241 & 242
	2	MUS 251 & 252
TOTAL	26	
Electives	Credits	
Total	3	Any MUSIC elective
TOTAL	60	

A.A. STATEWIDE ARTICULATION AGREEMENT – PHILOSOPHY CIP 240101 (PHIM)

The philosophy courses at Northeastern are designed to help prepare students for almost any profession in society today. The primary emphasis in philosophy is critical thinking; therefore, these courses provide good preparation for students interested in criminal justice, law, education, and social work.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO -3 course
Mathematics	3	One GT MA1 course, prefer MAT 120
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	7	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	31-32	
Additional Required Courses	Credits	
	3	PHI 111
	3	PHI 112
	3	PHI 113
	6	Two of the following: PHI 214, 218, 220
TOTAL	15	
Electives	Credits	
Total	13-14	
TOTAL	60	

Required Electives (13-14 credits)

Consult with a Northeastern Advisor and select 13-14 credits from courses listed on the specific articulation agreement and transfer institution requirements.

A.A. STATEWIDE ARTICULATION AGREEMENT POLITICAL SCIENCE CIP 240101 (POLS)

Students who pursue a degree in political science study governments, public policies and political processes, systems, and political behavior. Political science subfields include political theory, political philosophy, political ideology, political economy, policy studies and analysis, comparative politics, international relations, and a host of related fields.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO -3 course
Mathematics	3	One GT MA1 course, prefer MAT 135
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	ECO 201 & 202
Natural & Physical Sciences	8	Two GT courses from SC1
TOTAL	32	
Additional Required Courses	Credits	
	3	POS 105
	3	POS 111
	3	POS 205
	3	POS 225
TOTAL	12	
Electives	Credits	
Total	16	
TOTAL	60	

Required Electives (16 credits)

Consult with a Northeastern Advisor and select 6-7 credits based on the specific articulation agreement and transfer institution requirements.

A. A. STATEWIDE ARTICULATION AGREEMENT PSYCHOLOGY CIP 240101 (PSYA)

The Psychology program offers students the opportunity to take a very comprehensive selection of courses. This program would prepare transfer students to pursue bachelor's degree in psychology, human services, counseling, social work, and other areas in the behavioral sciences. Students are encouraged to have a strong mathematics and statistics background and to take courses in the natural sciences (e.g. biology and chemistry) as well.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO -3 course
Mathematics	3	*One 3 <u>or</u> 4 credit GT MA1 course, prefer MAT 135 Double check MAT requirement with your 4 year university of choice.
Arts & Humanities	9	Three GT courses from AH1, AH2, AH3 <u>or</u> AH4 No more than two from any one category
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	7-8	One GT Biology course from SC1 (must be a SC1 course with a lab) One GT SC1 course of the student's choosing
TOTAL	34-36	
Additional Required Courses	Credits	
	3	COM 115 <u>or</u> 125
	3	PSY 101
	3	PSY 102
	9	Three GT Psychology courses from SS3
TOTAL	18	
Electives	Credits	
Total	6-8	
TOTAL	60	

Required Electives (6-7 credits)

Consult with a Northeastern Advisor and select 6-7 credits based on the specific articulation agreement and transfer institution requirements.

*Please consult with Northeastern advisor in selecting the appropriate math course to take as some colleges require a specific math course.

A. A. STATEWIDE ARTICULATION AGREEMENT SOCIOLOGY

CIP 240101 (SOCL)

Sociology is the scientific study of society, including patterns of social relationships, social interaction, and culture. Sociologists study all things human, from the interactions between two people to the complex relationships between nations or multinational corporations. Students who study sociology learn to better understand themselves since sociology examines how the social world influences the way we think, feel, and act. Becoming aware of the social processes that influence the way humans think, feel, and behave enables individuals to shape the social forces they face. See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO -3 course
Mathematics	3	*One 3 <u>or</u> 4 credit GT MA1 course, prefer MAT 135
Arts & Humanities	9	Three GT courses from AH1, AH2, AH3 <u>or</u> AH4 from two different categories
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	8	Two GT courses from SC1
TOTAL	34-36	
Additional Required Courses	Credits	
	3	COM 115 <u>or</u> 125
	3	SOC 101
	3	SOC 102
	9	Three GT Sociology courses from SS3
TOTAL	18	
Electives	Credits	
Total	6-7	
TOTAL	60	

Required Electives (6-7 credits)

Consult with a Northeastern Advisor and select 6-7 credits based on the specific articulation agreement and transfer institution requirements as well as selecting the appropriate math course to take as some colleges require a specific math course.

A.A. STATEWIDE ARTICULATION AGREEMENT STUDIO ART CIP 240101 (SARD)

A degree in Studio Art helps you hone and express your creativity while providing you with knowledge of a variety of artistic techniques. Your ability to transform sketches, data, and verbal instructions into works of art makes you stand out to employers who need creative thinkers. Other skills you offer to potential employers include strong critical thinking skills, graphic design and marketing skills, the ability to adapt techniques, tools, and materials to different creative processes, budgets, and final uses. Experience designing products to meet the needs and tastes of diverse clients and audiences and demonstrate the use of texture, contrast, and color combinations for visual impact. Here is a brief list of some popular careers Studio Art majors have found success in: conservator, fine artist (painter, sculptor, and illustrator), multimedia artist/ animator, and scientific artist.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO -3 course
Mathematics	3-4	One GT MA1 course, prefer MAT 120
Arts & Humanities	6	Two GT courses from AH2, AH3 <u>or</u> AH4 (No AH1 courses)
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	7	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	31	
Additional Required Courses	Credits	
	6	ART 111 & ART 112
	3	ART 121
	6	ART 131 & ART 132
	3	ART 128 <u>or</u> 221
	3	Any three credit Studio Art Course
TOTAL	21	
Electives	Credits	
Total	8	
TOTAL	60	

Required Electives (7-8 credits)

Consult with a Northeastern Advisor and select 7-8 credits based on the specific articulation agreement and transfer institution requirements.

A.A. STATEWIDE ARTICULATION AGREEMENT THEATRE CIP 240101 (THRD)

The Northeastern theatre program is designed to give students a firm foundation in the basics of the theatrical craft. Whether a student plans on a career in theatre or film, or just wants to expand his or her love of the art form, the program provides the tools to move forward in this very competitive world. The work done at Northeastern enables students to transfer to four-year institutions secure in the knowledge that they are grounded in the basics of the theatre world, enabling them to compete in the theatrical world at major universities. Coursework combines theoretical work and practical on-stage experience. Northeastern theatre productions are open to all students regardless of major.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO -3 course
Mathematics	3	One GT MA1 course, prefer MAT 120
Arts & Humanities	6	THE 105 & 211
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	7	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
TOTAL	31-32	
Additional Required Courses	Credits	
	3	THE 108
	3	THE 111
	3	THE 116
	3	THE 212
	3	THE 215`1111
	3	One of the following: THE 131, 132, 231, 232
TOTAL	18	
Electives	Credits	
Total	10-11	
TOTAL	60	

Required Electives (10-11 credits)

Consult with a Northeastern Advisor and select 10-11 credits based on the specific articulation agreement and transfer institution requirements.

ASSOCIATE OF ARTS DEGREE (A.A.) (60 CREDITS) – GENERAL CIP 240101 (AA)

The Associate of Arts (A.A.) degree is awarded to a student who successfully completes a program designed to transfer to a four-year college or university to earn a baccalaureate degree. The student who is pursuing a particular major at a four-year institution may wish to select a particular area of emphasis described in this catalog. Students pursuing a program of study that has a Statewide Articulation Agreement must meet those requirements. These begin on page 49.

GRADUATION REQUIREMENTS AND POLICIES

1. Complete a minimum of 60 semester credits of approved coursework as outlined in the college catalog. Thirty-seven semester credits comprise the general education requirement for the A.A. The degree requires an additional 23 credits selected from the list of approved electives. Students should select their elective courses in consultation with their academic advisor based on the student's declared program of study and educational goal.
2. Earn a minimum cumulative grade point average of 2.0 (a "C" average).
3. Earn 15 semester credits of coursework prior to graduation through Northeastern.
4. Complete an Application for Graduation at <https://www.njc.edu>
5. Resolve all financial obligations to the college and return all library and college materials.

All students earning an Associate of Arts degree must complete 37 semester credits of the following general education requirements.

General Education Requirements

See pages 43-46 for Courses to fulfill the General Education requirements.

Oral Communication –3 credits (CCCS requirement)

COM 115 Public Speaking OR
COM 125 Interpersonal Communication OR
COM 220 Intercultural Communication.....3

Written Communication – 6 credits

ENG 121 English Composition I (GT-CO1) AND.....3
ENG 122 English Composition II (GT-CO2) OR.....3
ENG 122 English Composition II (GT-CO2) AND.....3
One Advanced Writing Course (GT-CO3).....3

Mathematics – 3 credits minimum, MAT 120 or higher. (Courses range from 3-5 credits)

Any guaranteed transfer Math course except MAT 155/156 (GT-MA1)

Arts & Humanities/Social & Behavioral Sciences Combined - 18 credits

- Two guaranteed transfer Arts & Humanities courses from two different categories (AH1, AH2, AH3, or AH4) AND
- Two guaranteed transfer Social & Behavioral Sciences courses (SS1, SS2, or SS3) AND
- One guaranteed transfer History course (HI1) AND
- One additional guaranteed transfer course from either

Arts & Humanities or Social & Behavioral Sciences (AH1, AH2, AH3, AH4, HI1, SS1, SS2, or SS3)

Physical & Life Sciences – 7 credits minimum

Two guaranteed transfer Physical & Life Sciences courses including at least one lab course (GT-SC1, GT-SC2).

Electives - 23 credits selected from the list of approved A.A./A.S. Electives on Page 45.

Elective Credits. Elective credits for Associate of Arts and Associate of Science degrees should be chosen in conjunction with the student's major and in consultation with his/her advisor.

Transferability of these courses is dependent upon the transfer agreement developed with each four-year college or university. It is in the student's best interest to see an advisor before selecting electives on page 48.

ASSOCIATE OF ARTS AREAS OF EMPHASIS

The following emphasis areas are listed to assist students and advisors in preparing students to transfer successfully. These emphasis areas do not appear on the student's transcripts or diploma.

Art

Art courses at Northeastern assist students in improving and developing their artistic abilities. The first year art course sequence (ART 121, 122, 131, and 132) explores methods, materials, and techniques as the foundation of artistic and creative development. The art courses offered at Northeastern benefit those students preparing for a career in one of many artistic fields such as fine art, commercial art, art education, graphic art, and interior design. Students anticipating a career outside of art are also encouraged to enroll in any of the Northeastern art courses.

Exhibits in the Peter L. Youngers Fine Arts Gallery provide students an opportunity to view original artwork as well as the possibility for students in art courses to display their artwork in the annual Student Exhibit.

Electives:

ART 115 Stained Glass I.....	3
ART 116 Stained Glass II.....	3
ART 121 Drawing I.....	3
ART 124 Watercolor I.....	3
ART 129 Printmaking I.....	3
ART 131 Visual Concepts 2-D Design.....	3
ART 132 Visual Concepts 3-D Design.....	3
ART 138 Film Photography I.....	3
ART 139 Digital Photography I.....	3

ART 151 Painting I.....	3
ART 161 Ceramics I.....	3
ART 162 Ceramics II.....	3
ART 16 Sculpture I.....	3
ART 221 Drawing II.....	3
ART 222 Drawing III.....	3
ART 223 Drawing IV.....	3
ART 231 Adv. Visual Concepts 2-D Design.....	3
ART 232 Adv. Visual Concepts 3-D Design.....	3
JOU 111 Principles of Advertising.....	3
MGD 133 Graphic Design I.....	3
MGD 233 Graphic Design II.....	3

Coaching

Students interested in coaching can earn credits toward the Colorado High School Activities Association registration by enrolling in the following course:

HPE 101 Introduction to Coaching.....	2
HWE 103 Community First Aid & CPR.....	1

For additional requirements, go to: www2.chsaa.org/coaches.asp

Pre-Law

Electives:

ECO 201 Principles of Macroeconomics.....	3
ECO 202 Principles of Microeconomics.....	3
BUS 216 Legal Environment of Business.....	3
GEO 105 World Regional Geography.....	3
GEO 106 Human Geography.....	3
HIS 101 Western Civilization: Antiquity to 1650.....	3
HIS 102 Western Civilization 1650 to Present.....	3
HIS 121 U. S. History to Reconstruction.....	3
HIS 122 U.S. History Since The Civil War.....	3
JOU 105 Introduction to Mass Media.....	3
PHI 111 Introduction to Philosophy.....	3
PHI 112 Ethics.....	3
PHI 113 Logic.....	3
POS 105 Introduction to Political Science.....	3
POS 111 American Government.....	3

Sport Management

Electives:

ACC 121 Principles of Accounting I.....	3
BUS 217 Business Communication & Report Writing.....	4
CIS 118 Intro to PC Applications.....	3
HPE 200 Perspectives in PE & Sport.....	3
HWE 124 Fitness & Wellness.....	2
MAN 226 Principles of Management.....	3
MAR 216 Principles of Marketing.....	3
REC 120 Intro to Sports Management.....	3

STATEWIDE ARTICULATION AGREEMENTS

Associate of Science

The number of statewide articulation agreements continues to increase. These agreements between two and four-year institutions ensure the student will take appropriate and required courses and provide for a smooth transfer to the four- year level. Students must complete all the courses with a “C” or better and no course substitutions allowed.

If course work is over 10 years old, it is up to the college if they want to apply it to the degree, but there is no guarantee course work that old will transfer. That would be up to the receiving institution.

A.S STATEWIDE ARTICULATION AGREEMENT ANIMAL SCIENCE CIP 240199 (ANSC)

The livestock sector needs well educated and trained individuals to manage production as well as processing operations. More specialized careers exist in animal care, breeding, nutrition, marketing, promotions, as well as research. A degree in Animal Science prepares students to transfer to Colorado State University.

See pages 43-46 for a list of Guaranteed Transfer Courses.

General Education Requirements	Credits	
Written Communication	6	ENG 121 and ENG 122 or ENG 122 and a GT CO:3 course
Mathematics	4	MAT 121 or MAT 125 or Higher Calculus
Arts & Humanities	6	Two GT courses from AH:1, AH:2, AH:3, or AH:4
History	3	One GT-HI:1 course
Social & Behavioral Sciences	6	AGE 102 and AGR 260
Natural & Physical Sciences	10	BIO 111 AND CHE 101 or CHE 111
TOTAL	35	
Additional Required Courses	Credits	
	3	ASC 100
	4	ASC 225
	3	ASC 230
	3	ASC 250
	2	ASC 288
	3	COM 115
TOTAL	18	
Additional Required courses	Credits	Select a minimum of 7 credits from the following:
	3	CIS 118 (Ag emphasis preferred)
	3	AGE 205
	3	AGE 208
	3	AGE 210
	4	ACC 121
	3	ECO 201
	3	RAM 205
	5	CHE 112
	5	CHE 205 or CHE 211
Total	7	
	Credits	
TOTAL	60	

A.S STATEWIDE ARTICULATION AGREEMENT AGRICULTURAL BUSINESS CIP 240199 (AGBU)

Agriculture Business contains coursework that prepares students to work in management, marketing, finance, and a wide variety of related careers within the agriculture industry.

See pages 43-46 for a list of Guaranteed Transfer Courses.

General Education Requirements	Credits	
Written Communication	6	ENG 121 and ENG 122 or ENG 122 and a GT CO:3 course
Mathematics	4	MAT 121 or MAT 125 or Higher Calculus
Arts & Humanities	6	Two GT courses from AH:1, AH:2, AH:3, or AH:4
History	3	One GT-HI:1 course
Social & Behavioral Sciences	6	AGE 102 and AGR 260
Natural & Physical Sciences	10	BIO 111 AND CHE 101 or CHE 111
TOTAL	35	
Additional Required Courses	Credits	
	3	COM 115
	3	CIS 118 (Ag Emphasis preferred)
	3	ECO 201
	3	MAT 135
TOTAL	12	
Additional Required courses	Credits	Select 13 credits from the following: (**Must choose 6 credits from an AGE Prefix)
	3	**AGE 205
	3	**AGE 208
	3	**AGE 210
	4	MAT 125
	3	ASC 100
	4	ASC 225
	3	ASC 250
	3	ASC 230
	2	ASC 288
	4	AGY 100
	4	AGY 240
	4	ACC 121
	3	RAM 205
Total	13	
	Credits	
TOTAL	60	

A.S STATEWIDE ARTICULATION AGREEMENT AGRICULTURAL EDUCATION CIP 240199 (AGED)

Agricultural Education is a great career path for those that would like to combine their interest in agriculture and their desire to teach and help others. It is the primary path for those wishing to teach Ag education in high school. Other career options are Extension Service and Sales, and industry positions involving the use of people skills

See pages 43-46 for a list of Guaranteed Transfer Courses.

General Education Requirements	Credits	
Written Communication	6	ENG 121 and ENG 122 or ENG 122 and a GT CO:3 course
Mathematics	4	MAT 121
Arts & Humanities	6	Two GT courses from AH:1, AH:2, AH:3, or AH:4
History	3	One GT-HI:1 course
Social & Behavioral Sciences	6	AGE 102 and AGR 260
Natural & Physical Sciences	10	BIO 111 or BIO 221 AND CHE 101 or CHE 111
TOTAL	35	
Additional Required Courses	Credits	
	3	ASC 100
	4	AGY 100
	4	AGY 240
	2	AME 105
TOTAL	13	
Directed Electives	Credits	Choose 2 of the 4 courses listed below (Minimum 6 credits)
	3	ASC 250
	3	EDU 221
	3	HWE 100
	4	HLT 100 or HLT 101
Electives	Credits	Select a minimum of 9 credits from the list below:
	3	AGE 205
	4	ASC 225
	3	ASC 230
	2	ASC 288
	2	AME 107
	3	AME 118
	3	AME 125
	3	AME 151
	4	AME 152
	3	RAM 205
Total	15	
	Credits	
TOTAL	63	

A.S. STATEWIDE ARTICULATION AGREEMENT BIOLOGY CIP 240199 (BIOD)

Northeastern offers a comprehensive life and health sciences program. It will meet most of the entrance requirements for many of the allied health professions such as physical therapy, pharmacy, chiropractic, pre-dentistry, pre-medicine, and pre-veterinary medicine. In addition, this program is advantageous for students interested in wildlife management, forestry, or teacher licensure programs with an emphasis in biological sciences. Students will have a broad preparation and will gain the skills needed to enter some professional programs, industry, or other professions including biotechnology, Agribusiness, food industries, cosmetics, and sales. Students entering this program should have a strong science and mathematics background in high school.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	5	MAT 201
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	10	BIO 111 & CHE 111
TOTAL	36	
Additional Required Courses	Credits	
	5	BIO 112
	5	CHE 112
	5	PHY 111
	5	PHY 112
TOTAL	20	
Electives	4	
TOTAL	60	

Required Electives (4 credits)

A.S. STATEWIDE ARTICULATION AGREEMENT CHEMISTRY CIP 240199 (CHED)

The chemistry program at Northeastern is intended to give students the background necessary to succeed as a chemistry major at most four-year colleges. The curriculum includes courses in chemistry, mathematics, and physics.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	5	MAT 201
Arts & Humanities	3	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	3	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	10	CHE 111 & 112
TOTAL	30	
Additional Required Courses	Credits	
	5	CHE 211
	5	CHE 212
	5	MAT 202
	5	MAT 203
	5	PHY 211
	5	PHY 212
TOTAL	29	
Electives	Credits	
	1	
TOTAL	60	

Required Electives (1 credit)

Consult with a Northeastern Advisor and select one credit based on the specific articulation agreement and transfer institution requirements.

Important Notes:

- This statewide transfer articulation agreement in Chemistry does not fulfill requirements for the GTPathways general education curriculum or the Associate of Science degree prior to transfer; however, this agreement does guarantee a student, if admitted, junior standing and completion of the baccalaureate degree within an additional 60 semester hours at the receiving institution.
- Completion of the receiving institution's lower division general education requirements is fulfilled only under the condition that one GTPathways-approved course in arts and humanities (AH1, AH2, AH3, or AH4) and one GTPathways-approved course in social and behavioral sciences (SS1, SS2, or SS3) are successfully completed at the receiving institution within the first 30 hours or 12 calendar months.
- Students transferring to a 4-year college/university under this Chemistry agreement are encouraged to 'reverse' transfer the one GTPathways course in arts and humanities and the one GT Pathways course in social and behavioral sciences (Note #2 above) back to their community college in order to complete the GT Pathways general education program and to earn their Associate of Science degree with a Chemistry designation.
- Lecture and laboratory portions of organic chemistry, CHE 211 and 212, must not be taken in an online delivery format.

A.S. STATEWIDE ARTICULATION AGREEMENT ENGINEERING

Each four-year institution has different transfer requirements. Students who complete the engineering articulation agreement will have appropriate coursework to transfer on and work on their bachelor's degree. Students should research carefully the institutions they would consider transferring to and the specific requirements for the engineering field they wish to enter. Below is a sample course list that does not satisfy graduation requirements at the engineering schools. Please consult with an advisor for optimal class selection

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122
Mathematics	14	MAT 201, 202 & 203
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	3	Two courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	15	CHE 111, PHY 211, PHY 212
TOTAL	47	
Electives	Credits	
	13	
TOTAL	60	

Required Electives (13 credits)

Consult with a Northeastern Advisor and select 13 credits based on the specific articulation agreement and transfer institution requirements.

A.S. STATEWIDE ARTICULATION AGREEMENT EQUINE SCIENCE CIP 240199 (EQSD)

The equine science program at Northeastern is designed to allow students a seamless transfer to Colorado State Universities equine program. This program consists of general education, agriculture, and equine science courses. The equine industry continues to see significant growth in Colorado and throughout the western United States with many job opportunities for graduates.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	4	MAT 121
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	AGE 102 & AGR 260
Natural & Physical Sciences	10	BIO 111 & CHE 101 <u>or</u> 111
TOTAL	35	
Additional Required Courses	Credits	
	4	ASC 102
	3	ASC 230
	3	COM 115
	3	MAT 135
TOTAL	13	
Directed Electives	Credits	
TOTAL	2-3	ASC 288 <u>OR</u> ASC 250
Electives	Credits	
	6	Choose 6 credits from the following:
	3	CIS 118
	3	AGE 205
	3	AGE 208
	3	AGE 210
	4	ACC 121
	3	ECO 201
Electives	3-4	Free Elective

Consult with a Northeastern Advisor and select 13 credits based on the specific articulation agreement and transfer institution requirements.

A.S. STATEWIDE ARTICULATION AGREEMENT GEOLOGY CIP 240199 (GEOL)

The geology program at Northeastern is intended to give geology students the background necessary to succeed as geology majors at a four-year institution. The curriculum includes geology, chemistry, physics, and mathematics courses generally required for a Bachelor of Science degree in geology at a four-year institution.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	5	MAT 201
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	10	CHE 111 & 112
TOTAL	36	
Additional Required Courses	Credits	
	4	GEY 111
	4	GEY 112
	5	MAT 202
	5	PHY 211
	5	PHY 212
TOTAL	23	
Electives	Credits	
	1	
TOTAL	60	

Required Electives (1 credit)

Consult with a Northeastern Advisor and select 1 credit based on the specific articulation agreement and transfer institution requirements.

A. S. STATEWIDE ARTICULATION AGREEMENT HORTICULTURE BUSINESS MANAGEMENT CIP 240199 (HBMD)

Please Note: At the current time Northeastern does not offer any of the HLT or FLD courses needed for electives for this degree. We do offer all of the general education and other required courses.

Horticulture management programs prepare students for careers in nurseries, greenhouses, and florist shops, often as assistant managers or managers. The training includes classes in plant care, marketing and business management, and irrigation. Students typically want to go into the business of designing and developing new horticulture technologies and/or breeding new plant species. These career paths often include course work in plant physiology, plant genetics, soils, and plant nutrition.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	4	MAT 121
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	ECO 201, ECO 202 <u>or</u> AGE 102
Natural & Physical Sciences	10	BIO 111 <u>or</u> BIO 221 & CHE 101 <u>or</u> 111
TOTAL	35	
Additional Required Courses	Credits	
	4	HLT 240 <u>or</u> AGY 240
	3	BUS 226 <u>or</u> MAT 135
	3	CIS 118
	4	HLT 260
	4	HLT 101 <u>or</u> HLT 100 <u>or</u> AGY 100
TOTAL	18	
Electives	Credits	
	7	Choose additional HLT or FLD courses except for HLT 208, 216 & 249; FLD 100 & 289
TOTAL	60	

Required Electives (7 credits)

Consult with a Northeastern Advisor and select 7 credits based on the specific articulation agreement and transfer institution requirements.

A. S. STATEWIDE ARTICULATION AGREEMENT MATHEMATICS CIP 240199 (MATH)

Students are able to complete mathematics courses supplemented with studies in natural science and/or computer sciences. At Northeastern coursework can provide mathematics students with a strong foundation in mathematics, physics, chemistry, computer science, composition, speech, humanities, and social sciences, enabling them to be successful in their mathematics major at their transfer institution.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	5	MAT 201
Arts & Humanities	9	Three GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	10	PHY 211 & 212
TOTAL	39	
Additional Required Courses	Credits	
	3	COM 115 <u>or</u> 125
	4	CSC 160
	5	MAT 202
	4-5	MAT 203 <u>or</u> 204
TOTAL	16-17	
Electives	Credits	
	4-5	
TOTAL	60	

Required Electives (4-5 credits)

Consult with a Northeastern Advisor and select 4-5 credits based on the specific articulation agreement and transfer institution requirements.

A.S. STATEWIDE ARTICULATION AGREEMENT PHYSICS CIP 240199 (PHYD)

Students are able to complete the first two years of their physics or engineering program Northeastern. Classes provide engineering students a strong foundation in mathematics, physics, chemistry, and computer science, enabling them to be successful in their engineering major at their transfer institution.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	5	MAT 201
Arts & Humanities	9	Three GT courses from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	One GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	10	PHY 211 & 212
TOTAL	36	
Additional Required Courses	Credits	
	5	CHE 111
	4-5	CHE 112 <u>or</u> CSC 160
	5	MAT 202
	4-5	MAT 203 <u>or</u> 204
	3-4	MAT 261 <u>or</u> 265 <u>or</u> 266
	3	PHY 213
TOTAL	24-27	
Electives	Credits	
	0	
TOTAL	60	

A.S. STATEWIDE ARTICULATION AGREEMENT PSYCHOLOGY CIP 240199 (PSYS)

The Psychology program offers students the opportunity to take a very comprehensive selection of courses. This program would prepare transfer students to pursue bachelor's degree in psychology, human services, counseling, social work, and other areas in the behavioral sciences. Students are encouraged to have a strong mathematics and statistics background and to take courses in the natural sciences (e.g. biology and chemistry) as well.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	4	MAT 121
Arts & Humanities	9	PHI 111 or PHI 112 and two GT courses from at least two different categories and from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2 <u>or</u> SS3
Natural & Physical Sciences	10	BIO 111 & CHE 111
TOTAL	38	
Additional Required Courses	Credits	
	3	COM 115 <u>or</u> COM 125
	3	PSY 101
	3	PSY 102
TOTAL	9	
Electives	Credits	
	13	
TOTAL	60	

Required Electives (13 credits)

Consult with a Northeastern Advisor and select 13 credits based on the specific articulation agreement and transfer institution requirements.

A.S. STATEWIDE ARTICULATION AGREEMENT SOIL & CROP SCIENCES CIP 240199 (SCSC)

As stewards of the land, farmers and ranchers know the value of proper land management. A degree in Soil & Crop Sciences prepares students for careers in private and commercial food crop operations as well as feed and range systems. Students transferring to Colorado State University, the state's land-grant institution, will be well prepared upon completing this *Degree with Designation*. Articulation Agreement transfers into Soils & Crop Sciences - Production Emphasis. For other emphasis areas see advisor for specific requirements.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & a GT CO-3 course
Mathematics	4	MAT 121 <u>or</u> 125 or higher calculus
Arts & Humanities	6	PHI 113 and one GT course from AH1, AH2, AH3 <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	AGE 102 and AGR 260
Natural & Physical Sciences	10	BIO 111 <u>or</u> BIO 221 & CHE 101 <u>or</u> CHE 111
TOTAL	35	
Additional Required Courses	Credits	
	4	AGY 100
	4	AGY 240
	3	COM 115
TOTAL	11	
Electives	Credits	
	14	Select 14 credits from the following: ACC 121, AGE 205, AGE 208, AGE 210, ASC 100, ASC 225, BIO 222, CIS 118, CHE 112, CHE 205 <u>OR</u> 211, ECO 201, GEY 111, HWE 100, MAT 135, PHY 105 <u>OR</u> 111 <u>OR</u> 211, RAM 205
TOTAL	60	

Required Electives (14 credits)

Consult with a Northeastern Advisor and select 14 credits based on the specific articulation agreement and transfer institution requirements.

ASSOCIATE OF SCIENCE DEGREE (A.S.) (60 CREDITS) GENERAL CIP 240199 (AS)

The Associate of Science (A.S.) degree is awarded to a student who successfully completes a program designed to transfer to a four-year college or university to earn a baccalaureate degree. The student who is pursuing a particular major at a four-year institution may wish to select a particular area of emphasis described in this catalog. Students pursuing a program of study that has a Statewide Articulation Agreement must meet those requirements. These begin on page 59.

GRADUATION REQUIREMENTS AND POLICIES

1. Complete a minimum of 60 semester credits of approved coursework as outlined in the college catalog. Thirty-nine semester credits comprise the general education requirement depending on which mathematics course is completed. The degree requires an additional 21 credits selected from the list of approved electives. Students should select their elective courses in consultation with their academic advisor based on the student's declared program of study and educational goal.
2. Earn a minimum cumulative grade point average of 2.0 (a "C" average).
3. Earn 15 semester credits of coursework prior to graduation through Northeastern.
4. File an Application for Graduation at <https://www.njc.edu>
5. Resolve all financial obligations to the college and return all library and college materials.

All students earning an Associate of Science degree must complete 39 semester credits of the following general education requirements.

General Education Requirements

Courses that fulfill the General Education requirements are listed on pages 43-46.

Oral Communication – 3 credits (CCCS requirement)

COM 115 Public Speaking OR

COM 125 Interpersonal Communication OR

COM 220 Intercultural Communication.....3

Written Communication – 6 credits

ENG 121 (GT-CO1) and ENG 122 (GT-CO2) OR..... 3

ENG 122 (GT-CO2) and one Advanced Writing

Course (GT-CO3)..... 3

Mathematics – 3 credits minimum. (Courses range from 3-5 credits)

MAT 121 College Algebra (GT-MA1) OR

MAT 122 College Trigonometry (GT-MA1) OR MAT 166

Pre-Calculus (GT-MA1) OR

MAT 201 Calculus I (GT-MA1) or higher.....3

Arts & Humanities – 6 credits

Two guaranteed transfer Arts & Humanities courses from two different categories:

- Arts & Expressions (GT-AH1)
- Literature & Humanities (GT-AH2)
- Ways of Thinking (GT-AH3)
- Foreign Languages (GT-AH4)

Social and Behavioral Science – 6 credits

Two guaranteed transfer Social & Behavioral Sciences courses:

- History (GH-HI1)
- Economic & Political Systems (GT-SS1)
- Geography (GT-SS2)
- Human Behavior & Social Systems (GT-SS3)

History – 3 credits

One guaranteed transfer History course (GT-HI1)..... 3

Physical & Life Sciences – 12 credits minimum

One 2-lab course sequence in any guaranteed transfer science discipline (GT-SC1) and additional guaranteed transfer lab science course(s) (GT-SC1).

- Astronomy (GT-SC1)
- Biology (GT-SC1)
- Chemistry (GT-SC1)
- Geology (GT-SC1)
- Physics (GT-SC1)

Electives – 21 credits selected from the list of Approved A.A./A.S.

Electives on Page 45.

Elective credits for Associate of Arts and Associate of Science degrees should be chosen in conjunction with the student's major and in consultation with his/her advisor. Transferability of these courses is dependent upon the transfer agreement developed with each four-year college or university. It is in the student's best interest to see an advisor before selecting electives on page 46.

ASSOCIATE OF SCIENCE AREAS OF EMPHASIS

Astronomy

Recommended General Education Courses:

AST 101 Planetary Astronomy I..... 4

AST 102 Planetary Astronomy II..... 4

CHE 111 General College Chemistry I.....5

MAT 121 College Algebra..... 4

PHY 211 Physics: Calculus-Based I.....5

PHY 212 Physics: Calculus-Based II.....5

Electives:

BIO 111 General College Biology I and 5

BIO 112 General College Biology II OR 5

CHE 111 General College Chemistry I and5

CHE 112 General College Chemistry II OR5

GEY 111 Physical Geology and 4

GEY 112 Historical Geology..... 4

MAT 122 College Trigonometry.....3

MAT 203 Calculus III..... 4

MAT 261 Differential Equations..... 4

Environmental Science

Recommended General Education Courses:

BIO 111 General College Biology I.....	5
BIO 112 General College Biology II.....	5
CHE 111 General College Chemistry I.....	5

Electives:

BIO 201 Human Anatomy/Physiology I.....	4
BIO 202 Human Anatomy/Physiology II.....	4
BIO 204 Microbiology.....	4
CHE 111 General College Chemistry I.....	5
(Required if student did not take chemistry in high school)	
HWE 100 Human Nutrition.....	3
MAT 135 Introduction to Statistics.....	3
PSY 235 Human Growth & Development.....	3

Microbiology

Recommended General Education Courses:

BIO 111 General College Biology I.....	5
CHE 111 General College Chemistry I.....	5
CHE 112 General College Chemistry II.....	5
MAT 201 Calculus I.....	5

Electives:

BIO 208 General College Microbiology.....	5
CHE 211 Organic Chemistry I.....	5
CHE 212 Organic Chemistry II.....	5

Pre-Dentistry

Recommended General Education Courses:

BIO 111 General College Biology I.....	5
BIO 112 General College Biology II.....	5
CHE 111 General College Chemistry I.....	5
CHE 112 General College Chemistry II.....	5
PHY 111 Physics: Algebra-Based I.....	5
PHY 112 Physics: Algebra-Based II.....	5

Electives:

CHE 211 Organic Chemistry I.....	5
CHE 212 Organic Chemistry II.....	5

Pre-Medicine

Recommended General Education Courses:

BIO 111 General College Biology I.....	5
BIO 112 General College Biology II.....	5
CHE 111 General College Chemistry I.....	5
CHE 112 General College Chemistry II.....	5
MAT 201 Calculus I.....	5
PHY 111 Physics: Algebra-Based I.....	5
PHY 112 Physics: Algebra-Based II.....	5

Electives:

CHE 211 Organic Chemistry I.....	5
CHE 212 Organic Chemistry II.....	5

Pre-Med is not a major at a four-year institution. Students should also consult the requirements for their chosen major.

Pre-Nursing

(For transfer to the University of Colorado Anschutz Medical)

Recommended General Education Courses:

ANT 101 Cultural Anthropology.....	3
BIO 111 General College Biology I.....	5
ECO 202 Principles of Microeconomics.....	3
MAT 121 College Algebra.....	4
PHI 111 Introduction to Philosophy.....	3
PHI 112 Ethics.....	3
PSY 101 General Psychology I.....	3

SOC 101 Introduction to Sociology I.....	3
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Electives:

BIO 201 Human Anatomy/Physiology I.....	4
BIO 202 Human Anatomy/Physiology II.....	4
BIO 204 Microbiology.....	4
CHE 111 General College Chemistry.....	5
(required if student did not take chemistry in high school)	

Pre-Nursing

(Designed for transfer to the University of Northern Colorado)

Recommended General Education Courses:

ANT 101 Cultural Anthropology.....	3
BIO 111 General College Biology I.....	5
ECO 202 Principles of Microeconomics.....	3
MAT 135 Introduction to Statistics.....	3
PHI 112 Ethics.....	3
PSY 101 General Psychology I.....	3
SOC 101 Introduction to Sociology I.....	3

Electives:

BIO 201 Human Anatomy/Physiology I.....	4
BIO 202 Human Anatomy/Physiology II.....	4
BIO 204 Microbiology.....	4
PSY 235 Human Growth & Development.....	3

Pre-Pharmacy

Recommended General Education Courses:

BIO 111 General College Biology I.....	5
BIO 112 General College Biology II.....	5
CHE 111 General College Chemistry I.....	5
CHE 112 General College Chemistry II.....	5
ECO 202 Principles of Microeconomics.....	3
MAT 201 Calculus I.....	5
PHY 111 Physics: Algebra-Based I.....	5
PHY 112 Physics: Algebra-Based II.....	5

Electives:

BIO 201 Human Anatomy/Physiology I.....	4
BIO 202 Human Anatomy/Physiology II.....	4
BIO 204 Microbiology.....	4
BIO 208 General College Microbiology.....	5
CHE 211 Organic Chemistry I.....	5
CHE 212 Organic Chemistry II.....	5

*Prerequisites will vary depending on the four-year institution.

Pre-Veterinary Medicine

Recommended General Education Courses:

BIO 111 General College Biology I.....	5
CHE 111 General College Chemistry I.....	5
CHE 112 General College Chemistry II.....	5
MAT 121 College Algebra.....	4
PHY 111 Physics: Algebra-Based I.....	5

Electives:

BIO 112 General College Biology II.....	5
BIO 204 Microbiology.....	4
BIO 208 General College Microbiology.....	5
CHE 211 Organic Chemistry I.....	5
CHE 212 Organic Chemistry II.....	5

Pre-Vet is not a major at a four-year institution. Students should also consult the requirements for their chosen major.

Sports Medicine/Athletic Training

The Sports Medicine/Athletic Training degree at Northeastern is designed to introduce students to the demanding sports medicine career. Students gain knowledge in assessment and treatment of athletic injuries and have an opportunity to apply these skills to Northeastern's athletic teams. This program is designed to successfully transfer to a four-year university program.

Electives:

HPE 102 Intro to Sports Medicine.....	2
HPE 130 Athletic Training Practicum I.....	1
HPE 231 Care/Prevention of Athletic Injuries.....	3
HPE 230 Athletic Training Practicum II.....	2
BIO 201 Human Anatomy & Physiology I.....	4
BIO 202 Human Anatomy & Physiology II.....	4
CIS 118 Intro PC Applications (recommended).....	3
HPR 102 CPR for Professionals.....	5
HPR 217 Kinesiology.....	4
HWE 237 Exercise/Nutrition & Body Comp.....	3

Wildlife Biology

Recommended General Education Courses:

BIO 111 General College Biology I.....	5
BIO 112 General College Biology II.....	5
ECO 202 Principles of Microeconomics.....	3
PHY 111 Physics: Algebra-Based I.....	5

Electives:

AGY 240 Introductory Soil Science.....	4
CHE 101 Intro to Chemistry I.....	5
MAT 122 College Trigonometry.....	3
MAT 166 Pre-Calculus.....	5
MAT 201 Calculus I.....	5

Zoology

Recommended General Education Courses:

BIO 111 General College Biology I.....	5
BIO 112 General College Biology II.....	5
CHE 111 General College Chemistry I.....	5
CHE 112 General College Chemistry II.....	5
PHY 111 Physics: Algebra-Based I.....	5
PHY 112 Physics: Algebra-Based II.....	5

Electives:

CHE 211 Organic Chemistry I.....	5
CHE 212 Organic Chemistry II.....	5

Other Pre-Professional Programs: Students should see an academic advisor to develop a plan of study for the following areas.

Pre-Chiropractic
Pre-Dental Hygiene
Pre-Forestry
Pre-Medical Technology
Pre-Mortuary
Pre-Occupational Therapy
Pre-Optometry
Pre-Physical Therapy
Pre-Radiologic Technology
Pre-Speech Pathology
Pre-Surgery Technology

ASSOCIATE OF GENERAL STUDIES DEGREE (A.G.S.) (60 CREDITS) CIP 240102 (AGS)

The Associate of General Studies (A.G.S.) degree is available for individuals who desire to complete a broad instructional program with the flexibility to tailor individual learning experiences.

There are two types of AGS degrees. This first type of the AGS degree is designed to meet individual career goals with no intent of transferring to baccalaureate degree programs. It consists of a broad program of both career and traditional transfer courses without the constraints of specialization. Transferability of this customized degree program depends upon the courses taken and the receiving institution. Fifteen of these semester hours must be in prescribed general education courses labeled as those accepted in the State Guarantee General Education Transfer and designated as such in the college catalog.

The second type of the AGS degree is used as a technical pre-professional transfer degree with a major field specified. It is designed for students to transfer into a baccalaureate degree program with junior standing, based on a written articulation agreement with one or more designated institutions. The course of study for the various fields of specialization must be outlined in the college catalog as well as the identification of the baccalaureate institution(s) that have agreed to accept the program in transfer. The other hours will be subject to the terms of the agreement with the baccalaureate institution(s).

GRADUATION POLICIES

1. Complete a minimum of 60 semester credits of approved coursework.
2. Thirty (30) semester credits of the total coursework must be taken in general education and professional coursework.
Students should select their elective courses in consultation with their academic advisor based on the student's declared program of study and educational goal. No more than 30 semester credits of coursework are to be in Career and Technical Education prefixed courses or community education courses.
3. Earn a minimum cumulative grade point average of 2.0 (a "C" average).
4. Earn 15 semester credits of coursework prior to graduation through Northeastern.
5. File an Application for Graduation at <https://www.njc.edu>
6. Resolve all financial obligations to the college and return all library and college materials.

General Education Requirements

Students earning the Associate of General Studies degree must complete 30 semester credit hours of the following general education requirements. **Any course designated as a Guaranteed Transfer Course (see list on pages 43-46) will also fulfill a general education requirement for the AGS degree in the appropriate category. Additional courses are listed under the respective categories below.**

Oral Communication - a minimum of 3 semester credits required:

COM 115 Public Speaking.....3

COM 125 Interpersonal Communication.....3

Written Communication - a minimum of 3 semester credits required: See Guaranteed Transfer courses on pages 43-46

ENG 115 Technical English & Communication.....3

Mathematics - a minimum of 3 semester credits required: See

Guaranteed Transfer courses on pages 43-46 or

MAT 112 Financial Mathematics.....3

Science - a minimum of 4 semester credits required: See Guaranteed

Transfer courses on pages 43-46 OR

AGY 100 General Crops.....4

HPR 217 Kinesiology.....4

Social and Behavioral Science — a minimum of 3 semester credits

required: See Guaranteed Transfer courses on pages 43-46 OR

MAN 128 Human Relations in Organization.....3

Humanities — a minimum of 3 semester credits required: See

Guaranteed Transfer courses on pages 43-46 OR

LIT 255 Children's Literature.....3

SPA 111 Spanish Language I.....5

SPA 112 Spanish Language II.....5

AGRICULTURE TRANSFER PROGRAMS

Northeastern has a long, rich tradition of strong transfer programs that are patterned after the freshman and sophomore years of the bachelor degree programs in the Colorado State University College of Agricultural Sciences. Students completing an Associate of General Studies degree in any of the below listed programs should be able to successfully transfer as a junior to Colorado State or other four-year colleges or universities offering degrees in agriculture or horticulture. Students planning to transfer to other four-year colleges or universities will work closely with an advisor to ensure a successful transfer.

- Agriculture General
- Agriculture Business
- Agriculture Communications/Journalism
- Agriculture Education
- Animal Science
- Equine Science
- Pre-Veterinary Medicine
- Range Management
- Soil & Crop Sciences

Agriculture students planning to transfer to an out-of-state institution should consult their advisor.

ASSOCIATE OF GENERAL STUDIES (A.G.S.) AGRICULTURAL CONCENTRATIONS

A.G.S AGRICULTURE BUSINESS CONCENTRATION

CIP 240102 (AGBU)

Agriculture Business contains coursework that prepares students to work in management, marketing, finance, and a wide variety of related careers within the agriculture industry.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
English	3	ENG 121
Mathematics	3	MAT 121
Arts & Humanities	3	ANY GT Course
Speech	3	COM 115
Social & Behavioral Sciences	3	AGE 102 <u>OR</u> AGR 260
Natural & Physical Sciences	4	BIO 111 <u>OR</u> CHE 101/111 <u>OR</u> Approve Science
TOTAL	19	
Additional Required Courses	Credits	
	3	CIS 118 (AG)
	3	ASC 100
	6	
Agriculture Business Concentration	Credits	
	3	ECO 201
	3	AGE 205
TOTAL	6	
Electives	Credits	
TOTAL	29	ENG 122, BIO 111/CHE 101/111, Humanities, History, MAT 125, MAT 135, AGE 208, AGY 100, AGY 240, ASC 225 <u>OR</u> Adviser approved electives
TOTAL	60	

A.G.S - AGRICULTURAL EDUCATION CONCENTRATION CIP 240102 (AGED)

Agricultural Education is a great career path for those that would like to combine their interest in agriculture and their desire to teach and help others. It is the primary path for those wishing to teach Ag education in high school. Other career options are Extension Service and Sales, and industry positions involving the use of people skills.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
English	3	ENG 121
Mathematics	3	MAT 121
Arts & Humanities	3	ANY GT Course
Speech	3	COM 115
Social & Behavioral Sciences	3	AGE 102 <u>OR</u> AGR 260
Natural & Physical Sciences	4	BIO 111 <u>OR</u> CHE 101/111 <u>OR</u> Approved Science
TOTAL	19	
Additional Required Courses	Credits	
	3	CIS 118 (AG)
	3	ASC 100
	6	
Agriculture Education Concentration	Credits	
	4	AGY 100
	3	AME Course
TOTAL	7	
Electives	Credits	
TOTAL	28	ENG 122, BIO 111/CHE 101/111, AGE 102 OR AGR 260, Humanities, History, AGY 240, AME 105, AME 118, AME 125, AME 151, EDU 221, ASC 225, ASC 250, ASC 288, RAM 205, AGE 205 <u>OR</u> Adviser approved electives
TOTAL	60	

A.G.S. – AGRICULTURE (GENERAL) CONCENTRATION CIP 240102

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
English	3	ENG 121, ENG 131, ENG 115
Mathematics	3	MAT 112 <u>OR</u> Higher
Arts & Humanities	3	
Speech	3	COM 115 <u>OR</u> COM 125
Social & Behavioral Sciences	3	
Natural & Physical Sciences	4	AGY 100, AGY 240, BIO 111, CHE <u>OR</u> ANY four credit GT Science
TOTAL	19	
Additional Required Courses	Credits	
	3	CIS 118 (AG)
	3	ASC 100
TOTAL	6	
Approved Ag Courses	Credits	
	15	Select from AGE, ASC, AGY, AGR, AME, AGP, AGB, EQM, EQT, HLT, ABM <u>OR</u> courses approved by Advisor.
TOTAL	15	
Electives	Credits	
	20	Approved by Advisor
TOTAL	60	

A.G.S. - AGRICULTURAL COMMUNICATION (JOURNALISM) CONCENTRATION CIP 240102

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
English	3	ENG 121
Mathematics	3	MAT 121
Arts & Humanities	3	ANY GT Course
Speech	3	COM 115
Social & Behavioral Sciences	3	AGE 102 <u>OR</u> AGR 260
Natural & Physical Sciences	4	BIO 111 <u>OR</u> CHE 101/111 <u>OR</u> Adviser approved Science
TOTAL	19	
Additional Required Courses	Credits	
	3	CIS 118 (AG)
	3	ASC 100
TOTAL	6	
Agriculture Communication Concentration	Credits	
	3	JOU 105
	4	AGY 100
TOTAL	7	
Electives	Credits	
	28	Select from the following: ENG 122, BIO 111/CHE 101/CHE 111, AGE 102 <u>OR</u> AGR 260, Humanities, History, MAT 125, MAT 135, AGE 208, AGE 210, AGY 240, ASC 225 <u>OR</u> Advisor approved electives.
TOTAL	60	

A.G.S. - ANIMAL SCIENCE CONCENTRATION CIP 240102 (ANSC)

The livestock sector needs well educated and trained individuals to manage production as well as processing operations. More specialized careers exist in animal care, breeding, nutrition, marketing, promotions, as well as research.

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
English	3	ENG 121
Mathematics	3	MAT 121
Arts & Humanities	3	ANY GT Course
Speech	3	COM 115
Social & Behavioral Sciences	3	AGE 102 <u>OR</u> AGR 260
Natural & Physical Sciences	4	BIO 111 <u>OR</u> CHE 101/111 <u>OR</u> Adviser approved Science
TOTAL	19	
Additional Required Courses	Credits	
	3	CIS 118 (AG)
	3	ASC 100
TOTAL	6	
Animal Science Concentration	Credits	
	4	ASC 225
	3	ASC 250
TOTAL	7	
Electives	Credits	
	28	Select from the following: ENG 122, BIO/CHE, AGE 102 <u>OR</u> AGR 260, Humanities, History, RAM 205, ASC 230, ASC 288, AGE 205, AGE 208, AGE 210 <u>OR</u> Adviser approved electives.
TOTAL	60	

A.G.S. - EQUINE SCIENCE CONCENTRATION CIP 240102 (EQSD)

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
English	3	ENG 121
Mathematics	3	MAT 121
Arts & Humanities	3	ANY GT Course
Speech	3	COM 115
Social & Behavioral Sciences	3	AGE 102 <u>OR</u> AGR 260
Natural & Physical Sciences	4	BIO 111 <u>OR</u> CHE 101/111 <u>OR</u> Adviser approved Science
TOTAL	19	
Additional Required Courses	Credits	
	3	CIS 118 (AG)
	3	ASC 100
TOTAL	6	
Equine Science Concentration	Credits	
	4	ASC 102
	3	AGE 205, 208, 210
TOTAL	7	
Electives	Credits	
	28	Select from the following: ENG 122, BIO/CHE, AGE 102 <u>OR</u> AGR 260, Humanities, History, ASC 225, ASC 230, ASC 250, ASC 288, AGE 205, AGE 208, AGE 210, RAM 205 <u>OR</u> Adviser approved electives.
TOTAL	60	

A.G.S. - SOIL & CROP SCIENCE CONCENTRATION CIP 240102

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
English	3	ENG 121
Mathematics	3	MAT 121
Arts & Humanities	3	*Recommend PHI 113 or ANY GT Course
Speech	3	COM 115
Social & Behavioral Sciences	3	AGE 102 <u>OR</u> AGR 260
Natural & Physical Sciences	4	BIO 111 <u>OR</u> CHE 101/111 <u>OR</u> Adviser approved Science
TOTAL	19	
Additional Required Courses	Credits	
	3	CIS 118 (AG)
	3	ASC 100
TOTAL	6	
Soil & Crop Science Concentration	Credits	
	4	AGY 100
	4	AGY 240
TOTAL	7	
Electives	Credits	
	28	Select from the following: ENG 122, BIO/CHE, AGE 102 <u>OR</u> AGR 260, Humanities, History, RAM 205, AGE 205, AGE 208, AGE 210, ASC 225 <u>OR</u> Adviser approved electives.
TOTAL	60	

A.G.S. - RANGE MANAGEMENT CONCENTRATION CIP 240102

See pages 43-46 for a list of Guaranteed Transfer courses.

General Education Requirements	Credits	
English	3	ENG 121
Mathematics	3	MAT 121
Arts & Humanities	3	*Recommend PHI 113 or ANY GT Course
Speech	3	COM 115
Social & Behavioral Sciences	3	AGE 102 <u>OR</u> AGR 260
Natural & Physical Sciences	4	BIO 111 <u>OR</u> CHE 101/111 <u>OR</u> Adviser approved Science
TOTAL	19	
Additional Required Courses	Credits	
	3	CIS 118 (AG)
	3	ASC 100
TOTAL	6	
Range Management Concentration	Credits	
	3	RAM 205
	4	AGY 240
TOTAL	7	
Electives	Credits	
	28	Select from the following: ENG 122, BIO/CHE, AGE 102 <u>OR</u> AGR 260, Humanities, History, AGY 100, AGE 205, AGE 208, AGE 210, ASC 225 <u>OR</u> Adviser approved electives.
TOTAL	60	

SECOND ASSOCIATE DEGREE Earning Multiple Degrees/Certificates

CCCS and Northeastern recognizes that there are circumstances in which our students may require additional degrees/certificates for employment, transfer, or for personal growth and satisfaction. This guideline designates circumstances in which a student may earn a multiple credential including: Bachelor of Applied Science, Associate of Arts (including with designation), Associate of Science (including with designation), Associate of General Studies, Associate of Applied Science, and Certificate programs. Students may be awarded a second degree subject to the following stipulations:

1. Students can earn more than one AA or AS *Degree with Designation* in the same or subsequent terms. Required courses for one degree can be used for another degree.
2. Students can earn more than one AAS degree in the same or subsequent terms. Required courses for one degree can be used as electives for another degree.
3. Students cannot earn an AA *Degree with Designation* and a general AA degree using the same coursework.
4. Students cannot earn an AS *Degree with Designation* and a general AS degree using the same coursework.
5. Students who have earned a degree higher on the hierarchy list may not earn a degree lower on the hierarchy list using the same coursework. Exception: Students may earn multiple AAS degrees, even if they have already earned a higher degree on the hierarchy.
6. This policy does not apply to students who may transfer to the community college system with a Bachelors of Arts or Bachelors of Science degree.

Degree Hierarchy:

- BAS (Bachelor of Applied Science)
- AA and AS (Associate of Arts/Associate of Sciences Degrees with Designation)
- AA and AS (Associate of Arts/Associate of Science General Studies)
- AGS (Associate of General Studies)
- AAS (Associate of Applied Science)

Career & Technical Education

CAREER AND TECHNICAL EDUCATION (CTE)

A changing emphasis in education has heightened the interest in career and technical education and more and more students are seeking college programs which lead directly to gainful employment.

Work in industry has become so highly specialized that general education no longer meets the number and variety of job demands; the student needs more skilled and specialized training today than ever before.

To help meet these demands Northeastern offers a range of immediate employment programs developed in cooperation with business and industry.

Programs may be a two-year Associate of Applied Science Degree or a Northeastern Certificate of one year or less.

Outstanding features of the career and technical education programs include modern equipment and facilities common to business or industry and a strong faculty with many years of workplace experience.

The objectives of the career and technical programs are:

- To learn the essential skills and operational theory needed to ensure occupational competency
- To develop correct habits of work safety
- To cultivate desirable civic attitudes such as integrity, dependability, resourcefulness and cooperation
- To recognize the importance of technology in the workplace

Career and Technical Education programs may carry special admission requirements in addition to those included in this catalog under general admission procedures. All information regarding admission is available from the Office of Admission.

The college reserves the right to substitute courses for those no longer offered, to modify course content at any time, to approve the substitution of one course for another in any program or degree, or waive any course prerequisite or co-requisite.

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

The Associate of Applied Science (A.A.S.) degree is awarded to a student who successfully completes a program designed to prepare the student for immediate employment in a full-time skilled and/or paraprofessional occupation. Each of the college's A.A.S. degree programs is in a specified occupational field. The program guides are located in the Career and Technical Education section of the catalog. Although some college credits within these programs are accepted for transfer by particular four-year colleges and universities, career and technical education courses are not specifically designed to facilitate transfer. The student who anticipates transferring is encouraged to check carefully the requirements of the respective institution.

GRADUATION REQUIREMENTS AND POLICIES

1. Complete between 60 - 75 semester credits of approved coursework as outlined in the college catalog. Exceptions to the AAS degree maximum of 75 semester credit hours may be granted in those fields in which there is a demonstrated need that requires additional coursework. Since each A.A.S. program is designed for a specified career or technical field the minimum requirements will vary with the particular program. A minimum of 15 semester credits of the total must be in general education courses. The remaining credits must be earned as technical skills development coursework drawn from the specific career and technical program requirements.
2. Earn a minimum cumulative grade point average of 2.0 (a "C" average).
3. Earn 15 semester credits of coursework prior to graduation on the Sterling campus (or approved outreach center) of Northeastern.
4. File an Application for Graduation at <https://www.njc.edu>
5. Resolve all financial obligations to the college and return all library and college materials.

General Education Requirements

The requirements of each A.A.S. degree program and the specific general education courses that must be completed for each program are described in the following pages of the Career and Technical Education section. Courses that meet the general education requirements for each A.A.S. degree program is chosen from the following areas in Communications or Reading, Mathematics, Science or Computer Science, Social/Behavioral Sciences or Humanities.

Any course designated as a Guarantee Transfer Course (see list on pages 43-46) will also fulfill a general education requirement for the AGS degree in the appropriate category.

Students must have at least one course in each of the following categories:

- I. **Communication or Reading**
 - ENG 115 Technical English & Communication..... 3
 - ENG 121 English Composition I.....3
 - ENG 122 English Composition II.....3
 - ENG 131 Technical Writing..... 3
 - REA 130 Technical & Applied Reading.....2
 - COM 115 Public Speaking.....3
 - COM 125 Interpersonal Communications.....3
 - COM 230 Argumentation and Debate.....3
 - II. **Mathematics**
 - See Guarantee Transfer courses on pages 43-46 OR
 - BUS 226 Business Statistics OR..... 3
 - MAT 135 Intro to Statistics.....3
 - MAT 102 Skilled Trades & Industrial Math..... 2
 - MAT 103 Math for Clinical Calculations.....3
 - MAT 107 Career Math.....3
 - MAT 112 Financial Mathematics.....3
 - III. **Science or Computer Science**
 - See Guarantee Transfer courses on pages 43-46 OR
 - AGB 218 Computerized Farm Records..... 3
 - AGB 102 Foundations of Agribusiness..... 3
 - AGY 100 General Crops.....4
 - ASC 100 Animal Sciences.....3
 - ASC 102 Introduction to Equine Science.....4
 - CHE 205 Introductory Organic Chemistry..... 5
 - CIS 117 Intro to Technical Applications..... 2
 - CIS 118 Intro to PC Applications.....3
 - CWB 110 Complete Web Authoring.....3
 - CWB 130 Complete Web Editing.....3
 - EDU 265 Technology in Education.....3
 - HPR 217 Kinesiology.....4
 - MGD 101 Introduction to Computer Graphics.....3
 - MGD 141 Web Design I.....3
 - IV. **Social and Behavioral Science - Humanities**
 - See Guarantee Transfer courses on pages 43-46 OR
 - BUS 115 Introduction to Business.....3
 - BUS 116 Personal Finance.....3
 - BUS 203 Intro to International Business..... 3
 - MAN 128 Human Relations in Organization.....3
 - PSY 237 Child and Adolescent Psychology.....3
 - SPA 111 Spanish Language I.....5
 - SPA 112 Spanish Language II.....5
- Total Semester Credits 15 Credits**

Summary of Degree Requirements

- I. General Education (chosen from the four basic areas in Communications or Reading, Mathematics, Science or Computer Science, and Social/Behavioral Sciences or Humanities)
 - II. Specific A.A.S. program courses and electives 45-60
- Total Semester Credits 60-75**

CERTIFICATE IN CAREER AND TECHNICAL EDUCATION PROGRAMS

A Certificate is awarded to a student who successfully completes a career and technical education program not leading to an Associate of Applied Science degree (A.A.S.). Normally these programs are two years, one year, or less in duration. These programs are designed primarily to prepare students for immediate employment. Depending on the program, some general education or related coursework may be required. Students are encouraged to supplement their career and technical training with at least two additional approved general education courses. Course requirements for various certificate programs are outlined in this catalog in the Career and Technical Education section.

GRADUATION REQUIREMENTS AND POLICIES

1. Complete the minimum semester credits required for the program as outlined in the college catalog.
2. Complete general education requirements (if any).
3. Earn a minimum cumulative grade point average of 2.0 (a "C" average).
4. Earn 25% of the semester credits of the program's coursework through Northeastern.
5. File an Application for Graduation at <https://www.njc.edu>
6. Resolve all financial obligations to the college and return all library and college materials.

AGRIBUSINESS

ASSOCIATE OF APPLIED SCIENCE DEGREE

CIP 010101(AGB1)

Agribusiness is a field that encompasses the technologies of agriculture and business, combining the management aspects of business with the production factors of agriculture. This education provides a skilled technician for that part of the industry that serves the producer. It also prepares the student to take advantage of the off-farm agriculture opportunities.

The Agribusiness program at Northeastern is designed for a student who plans on going directly into industry. This program is not intended to transfer to a four-year institution. It consists of classroom work (60 credits) and eight (8) credits of Internship for a total of 68 credits. Students will work for an agribusiness firm for 320 hours for eight (8) Internship credits.

General Education Requirements 15 Credits

Communication	6
COM 115 Public Speaking <u>OR</u>	3
COM 219 Group Dynamics.....	3
ENG 121 English Composition <u>OR</u>	3
ENG 131 Technical Writing I <u>OR</u>	3
ENG 115 Technical English & Communication.....	3
Mathematics/Science	6
MAT 107 Career Mathematics <u>OR</u> higher math.....	3
ASC 100 Animal Science.....	3
Social Science/Humanities	3
AGE 102 Agricultural Economics <u>OR</u>	3
AGB 102 Foundations of Agribusiness.....	3

Program Requirements 31 Credits

ACC 101 Fundamentals of Accounting <u>OR</u>	3
AGB 218 Computerized Farm Records.....	3
AGB 120 Agricultural Salesmanship.....	3
AGB 180 Agribusiness Internship.....	8
AGB 228 Agribusiness Management.....	3
AGB 289 Agribusiness Capstone.....	1
AGE 210 Agricultural Marketing.....	3
AGY 100 General Crops <u>OR</u>	4
AGP 100 Practical Crop Production.....	4
BUS 217 Business Communication & Report Writing.....	3
CIS 118 Introduction to PC Applications.....	3

Suggested Electives 22 Credits

ACC 121 Principles of Accounting I.....	4
ACC 122 Principles of Accounting II.....	4
AGB 218 Computerized Farm Records.....	3
AGE 205 Farm and Ranch Management.....	3
AGE 208 Agricultural Finance.....	3
AGP 110 Integrated Pest Management.....	3
AGP 145 Calving Management.....	2
AGP 146 Artificial Insemination.....	2
AGP 147 Practical Cattle Reproduction.....	2
AGP 148 Cattle Reproduction Lab.....	1
AGP 204 Soil Fertility and Fertilizers.....	4
AGP 208 Commercial Pesticide License Training.....	3
AGP 215 Animal Health.....	3
AGP 241 Beef Cattle Management I.....	3
AGP 247 Production Cattle Feeding.....	3
AGR 235 Precision Ag Operations.....	3

AGR 236 Precision Farming Hardware.....	3
AGR 260 World Interdependence- Population & Food.....	3
AME 105 Basic Ag Mechanic Skills.....	2
AME 107 General Power Mechanics.....	2
AME 118 Farm Carpentry.....	3
AME 125 Agricultural Machinery.....	3
ASC 102 Introduction to Equine Science.....	4
ASC 143 Elementary Western Equitation.....	2
ASC 225 Feeds/Feeding.....	4
ASC 243 Intermediate Western Equitation.....	2
ASC 245 Equine Evaluation.....	3
ASC 250 Livestock & Carcass Evaluation.....	3
ASC 288 Livestock Practicum.....	2
AGY 240 Introduction to Soil Science.....	4
BUS 115 Introduction to Business.....	3
BUS 216 Legal Environment of Business.....	3
BUS 221 Business Law I.....	3
EQM 210 Equine Health.....	2
EQM 211 Equine Health Lab.....	1
EQM 158 Equine Reproduction.....	2
EQT 140 Ranch Horse Versatility.....	3
EQT 240 Ranch Horse Versatility II.....	3
MAN 205 Event Planning.....	3
MAN 226 Principles of Management.....	3
MAR 216 Principles of Marketing.....	3
MAR 220 Principles of Advertising.....	3
RAM 205 Principles of Range Management.....	3
Up to 18 credits of ABM courses	

AGRIBUSINESS CERTIFICATE

CIP 010101 (AGB1)

A Certificate will be granted upon completion of 30 semester credits of classroom work and 8 credits of Internship. Appropriate courses are selected in consultation with a faculty advisor. Internship is normally completed during the summer following the nine months of classroom course work.

AGRICULTURE BUSINESS MANAGEMENT

SIX ONE-YEAR CERTIFICATES

This program is designed for beginning and/or experienced agriculture operators who wish to develop or improve upon their financial management skills and gain knowledge of how to improve business operations.

The uniqueness of this program comes from the one-on-one instruction that takes place at a convenient location for the student. In today's agriculture climate, management means being a decision-maker who is attuned to all dimensions of the working environment. Each certificate requires 18 credits and students can choose to take 3, 6, or 9 credits per semester. Instruction is made up of one-on-one visits, lectures of hybrid or online instruction, and cooperative education.

RECORDS & BUSINESS PLANNING

CERTIFICATE

CIP 010106 (ABM5)

Program Requirements **18 Credits**

ABM 103 Records & Business Planning I.....	3
ABM 104 Records & Business Planning II.....	3
ABM 105 Records & Business Planning III.....	3
ABM 106 Records & Business Planning IV.....	3
ABM 107 Records & Business Planning V.....	3
ABM 108 Records & Business Planning VI.....	3

The Records and Business Planning certificate focuses on helping students master computerized record-keeping and begin to develop a business plan. Potential products completed in this certificate program include, but are not limited to a balance sheet, chart of accounts, business goals, personal goals, amortization schedules, cash income statements, and a SWOT analysis.

FINANCIAL ANALYSIS CERTIFICATE

CIP 010104 (ABMF)

Program Requirements **18 Credits**

ABM 113 Financial Analysis I.....	3
ABM 114 Financial Analysis II.....	3
ABM 115 Financial Analysis III.....	3
ABM 116 Financial Analysis IV.....	3
ABM 117 Financial Analysis V.....	3
ABM 118 Financial Analysis VI.....	3

The focus of the Financial Analysis Certificate is to develop financial statements and understand financial ratios as they relate to the agricultural business. Potential products completed in this certificate program include, but are not limited to a cash flow, enterprise budgets, accrual market balance sheet, accrual income statement, financial ratios, and a historical comparison report.

COMMODITY MARKETING

CERTIFICATE

CIP 010105 (ABM3)

Program Requirements **18 Credits**

ABM 123 Commodity Marketing I.....	3
ABM 124 Commodity Marketing II.....	3
ABM 125 Commodity Marketing III.....	3
ABM 126 Commodity Marketing IV.....	3
ABM 127 Commodity Marketing V.....	3
ABM 128 Commodity Marketing VI.....	3

The Commodity Marketing Certificate introduces you to commodity marketing and teaches you to utilize a defined, written marketing plan. Potential products completed in this certificate program include, but are not limited to a list of marketing strategies, basis schedule, field tracking system, marketing plan, and production database.

MARKET PLAN DEVELOPMENT

CERTIFICATE

CIP 010105 (ABMI)

Program Requirements **18 Credits**

ABM 163 Marketing Plan Dev I.....	3
ABM 164 Marketing Plan Dev II.....	3
ABM 165 Marketing Plan Dev III.....	3
ABM 166 Marketing Plan Dev IV.....	3
ABM 167 Marketing Plan Dev V.....	3
ABM 168 Marketing Plan Dev VI.....	3

The Market Plan Development Certificate is designed for students who want to continue with an option of completing a market plan in a specific area. Potential products to be completed in this certificate program include, but are not limited to product/service analysis, competitive analysis, target market list, price template, breakeven template, promotional strategy, decision aid tool list and a market plan.

ADVANCED AGRICULTURE BUSINESS

MANAGEMENT CERTIFICATE

CIP 010102 (AABM)

Program Requirements **18 Credits**

ABM 213 Advanced Business Management I.....	3
ABM 214 Advanced Business Management II.....	3
ABM 215 Advanced Business Management III.....	3
ABM 216 Advanced Business Management IV.....	3
ABM 217 Advanced Business Management V.....	3
ABM 218 Advanced Business Management VI.....	3

The Advanced Ag Business Management Certificate focuses on in-depth financial analysis of the business and measuring the past and present performance of the agriculture operation. Potential products to be completed in this certificate program include, but are not limited to an expanded trend analysis, pro-forma statements, alternative enterprise budgets, revised components of the business plan, risk management plan, and a critical issues list.

PROFIT MAXIMIZATION CERTIFICATE CIP

010102 (ABPM)

Program Requirements **18 Credits**

ABM 233 Profit Maximization I.....	3
ABM 234 Profit Maximization II.....	3
ABM 235 Profit Maximization III.....	3
ABM 236 Profit Maximization IV.....	3
ABM 237 Profit Maximization V.....	3
ABM 238 Profit Maximization VI.....	3

The Profit Maximization Certificate focuses on basic economic concepts that enhance the financial success of an agriculture operation. Potential products to be completed in this certificate include, but are not limited to a major business structure list, Schedule F tax schedule, enterprise production function, supply/demand graph, and a market price equilibrium graph.

PRODUCTION AGRICULTURE ASSOCIATE OF APPLIED SCIENCE DEGREE

CIP 010301 (PRAA)

This program is designed to provide students with the necessary management and production skills required in the field of production agriculture today. Students seeking an occupation in farming or ranching will be able to pursue a variety of skills and competencies necessary to meet their individual occupational objective. This program requires 60 credits of course work and at least eight credits of required internship(s) for a total of at least 68 credits.

General Education Requirements 15 Credits

ASC 100 Animal Science.....	3
AGE 102 Agricultural Economics OR	
AGB 102 Foundations of Agribusiness.....	3
MAT 107 Career Mathematics OR higher Math	3
ENG 115 Tech English OR Higher.....	3
CIS 113 Intro to PC Applications.....	3

Program Requirements 25-26 Credits

ACC 101 Fundamentals of Accounting OR	3
AGB 218 Computerized Farm Records.....	3
AGE 205 Farm and Ranch Management	3
AGP 100 Practical Crops OR	4
AGY 100 General Crops.....	4
AGP 180 Production Ag Internship.....	8
AGP 289 Production Ag Capstone.....	1
AME Any Agriculture Mechanics Course.....	2 or 3
ASC 225 Feeds and Feeding.....	4

Suggested Electives 27-28 Credits

ACC 121 Principles of Accounting I.....	4
AGE 208 Agricultural Finance.....	3
AGE 210 Agricultural Marketing.....	3
AGP 110 Integrated Pest Management.....	3
AGP 145 Beef Cattle Calving Management.....	2
AGP 146 Artificial Insemination.....	2
AGP 147 Practical Cattle Reproduction.....	2
AGP 148 Cattle Reproduction Lab.....	1
AGP 160 Ranch Horsemanship Skills.....	2
AGP 204 Soil Fertility and Fertilizers.....	4
AGP 208 Commercial Pesticide License Training.....	3
AGP 215 Animal Health.....	3
AGP 241 Beef Cattle Management I.....	3
AGP 247 Production Cattle Feeding.....	3
AGR 235 Precision Ag Operations.....	3
AGR 236 Precision Farming Hardware.....	3
AGR 260 World Interdependence – Population & Food.....	3
AGY 240 Introductory Soil Science.....	4
AME 105 Basic Agricultural Mechanic Skills.....	2
AME 118 Farm Carpentry.....	3
AME 125 Agricultural Machinery.....	3
AME 151 Fundamentals of Welding.....	3
ASC 102 Introduction to Equine Science.....	4
ASC 143 Elementary Western Equitation.....	2
ASC 215 Livestock Judging.....	2
ASC 243 Intermediate Western Equitation.....	2
ASC 245 Equine Evaluation.....	3
ASC 250 Livestock and Carcass Evaluation.....	3
ASC 288 Livestock Practicum.....	2

BUS 115 Introduction to Business.....	3
BUS 216 Legal Environment of Business.....	3
BUS 221 Business Law.....	3
EQM 158 Equine Reproduction.....	2
EQM 210 Equine Health.....	2
EQM 211 Equine Health Lab.....	1
EQT 140 Ranch Horse Versatility I.....	3
EQT 240 Ranch Horse Versatility II.....	3
MAN 205 Equine Event Management.....	3
RAM 205 Principles of Range Management.....	3
*Up to 18 credits of ABM courses	

PRODUCTION AGRICULTURE CERTIFICATE

CIP 010301 (PRAA)

Students completing 30 semester credits plus 8 credits of Internship (38 total credits) will be eligible to receive a Northeastern Certificate. A minimum of 15 credits must be taken from agricultural courses. The additional 15 credits taken will be with the approval of the advisor. (Refer to the AAS Degree in Production Agriculture as a guide in selecting courses for study.)

APPLIED MANAGEMENT

ASSOCIATE OF APPLIED SCIENCE DEGREE

CIP 520201 (BSAM)

The Associate of Applied Science Degree in Applied Management (AAS) is designed to meet the needs of individuals who have acquired post high school occupationally-related training at any community college, technical institute, military service school, proprietary school, or industry-related school in the business, health, or technical fields.

This program builds on the student's previous one or more years of training in technical skills-related programs, but also includes courses that will provide entrepreneurial training necessary to obtain management level employment appropriate to the Associate of Applied Science Degree and former technical training. Finally, the program requires a variety of general education courses that enable the individual to understand and appreciate his/her societal responsibilities.

The following types of occupations are examples of how this program would work.

Prior Technical Training (30 Credits)

+ Applied Management Courses

= Job Possibilities

Practical Nursing (PN)	Nursing Home Administrator
Carpentry	Millwork Sales
Diesel Repair	Dealership Operations
Auto Repair	Wind Technology
Cosmetology	Early Childhood Education
Owner/Operator - Business	Day Care Center
Paint/Equipment Sales Representative	

This core includes one or more years of prior technical training (30 semester credit hours minimum) from any recognized CTE program. A student is required to produce a transcript of credit hours or the equivalent in a technical field.

Communication or Reading.....	6
Mathematics.....	3
Science or Computer Science.....	3
Arts & Humanities.....	3

Program Requirements	Credits
BUS 115 Introduction to Business.....	3
BUS 217 Business Communications and Report Writing.....	3
Choose 9 credits from ACC, BUS, ECO, MAN, CIS, MAR, MGD <u>OR</u> PHI205.....	9
*Required classes	

APPLIED TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE DEGREE

To complete the AAS Degree in Applied Technology a student will complete the technical course work for a state approved Career and Technical Education certificate at one of the four area vocational technical schools (AVTS). The four AVTS's are: Delta-Montrose Area Vocational Technical Center, Emily Griffith Opportunity School, San Juan Basin Area Vocational School, and T.H. Pickens Technical Center.

The general education and other degree requirements will be completed at one of the Colorado public community/junior colleges. The AAS Degree will be conferred by the community/ junior college at which the general education and other degree requirements have been completed.

The approved Career and Technical Education certificate programs at the AVTS prepare students with technical, applied academic, and employability skills. Credit, in varying amounts from these certificate programs, will be applicable to the community college's AAS Degree in Applied Technology. Students may enroll concurrently at both institutions, an AVTS and a community college. Students must comply with the regulations and requirements relating to admission and attendance at each institution.

Minimum requirements for the Associate of Applied Science (AAS) Applied Technology Degree include:

1. Minimum of 60 semester hours of course work.
2. Cumulative GPA of 2.0 or higher.
3. General education course of 15 semester hours.
4. Additional requirements of at least 42 semester hours:
 - From an individual state approved program at one of the four AVTS's.
 - If the program certificate is less than 42 semester hours, then the program certificate hours plus elective credit hours from the community college will be used for the total of at least 42 semester hours.
5. Minimum of 15 semester hours earned at the community college.
6. Students must achieve a cumulative 2.0 GPA after completion of their 1st and 2nd semesters to continue to the 3rd semester.

General Education Requirements	Credits
Communications or Reading.....	3
Mathematics.....	3
Science or Computer Science.....	3
Social Science or Humanities.....	3
General Education Elective.....	3
15 minimum	

AUTOMOTIVE & DIESEL MASTER TECHNICIAN CERTIFICATE CIP 470604 (ADMT)

Upon successful completion of all required courses in the Automotive Technology OR in the Diesel Technology AAS degree a student may pursue an Automotive & Diesel Master Technician certificate.

The Automotive and Diesel Master Technician (ADMT) Certificate will provide Auto Tech and Diesel Tech students with the opportunity to supplement and enhance their technical skills with courses specific to the auto or diesel tech program in which they did not earn their degree/certificate. To earn an ADMT certificate an Auto Tech graduate will take certain diesel tech courses and a Diesel Tech graduate will take certain auto tech courses. Students completing this additional coursework will have a wide array of employment opportunities.

Currently there are many employment opportunities in both the automotive and diesel areas that are going unfilled due to a lack of qualified personnel. The Automotive and Diesel Master Technician Certificate will also provide graduates who wish to become entrepreneurs a much broader foundation on which to build an automotive and/ or diesel repair business.

Certificate Requirements for an Auto Tech graduate

Minimum of 20 credits of Diesel Power Mechanics (DPM) course work and six (6) general education credits from ACC, BUS, CWB, MAN, or MAR.

Certificate Requirements for a Diesel Tech graduate

Minimum of 20 credits of Automotive Service Technology (ASE) course work and six (6) general education credits from ACC, BUS, CWB, MAN, or MAR.

AUTOMOTIVE TECHNOLOGY

ASSOCIATE OF APPLIED SCIENCE DEGREE

CIP 470604 (AUT)

The Automotive Technology program is designed to prepare students for jobs in the areas of parts, service management, or service and repair. The program is meeting the needs for training in this field by offering a variety of courses supported by ASE Education standards.

Basic skills in math, science, reading, along with skills and knowledge obtained in the program are essential to successfully securing and holding down jobs in the automotive industry. Effective communication skills are essential to successfully work with customers and co-workers. Technicians must also be able to write work orders and reports to explain and justify repairs. Only students with a cumulative 2.0 GPA or better at the end of their 2nd semester will be allowed to continue to their 3rd semester.

Graduates of the Automotive Technology Program will receive either a Northeastern Certificate or an Associate of Applied Science Degree.

Concurrent enrollment of high school juniors and seniors is encouraged. Students can earn the Automotive Maintenance and Inspection Certificate in one semester. Interested students should work with their counselor to plan ahead and include the course in the ICAP.

General Education Requirements 15 Credits

MAT 102 Skilled Trades & Industrial Math.....	2
REA 130 Applied & Technical Reading.....	2
BUS 102 Entrepreneurial Operations.....	3
PHY 103 Physics for CTE Occupations.....	2
ENG 115 Technical English & Communications <u>OR</u>	
ENG 121 English Composition I.....	3
MAN 128 Human Relations in Org.	3

Program Requirements 60 Credits

ASE 101 Auto Shop Orientation.....	2
ASE 110 Brake Service I.....	2
ASE 111 Brake Service II.....	2
ASE 120 Basic Automotive Electricity.....	2
ASE 122 Auto Electrical Safety Systems.....	1
ASE 123 Battery, Starting & Charging Systems.....	2
ASE 130 General Engine Diagnosis.....	2
ASE 134 Autofuel & Emissions Syst I.....	2
ASE 140 Steering & Suspension I.....	2
ASE 141 Steering & Suspension II.....	2
ASE 150 Manual Drive Train & Axle Maint.....	2
ASE 151 Manual Trans/Transaxle I.....	2
ASE 192 Manual Trans/Transaxle II.....	3
ASE 160 Auto Engine Repair.....	2
ASE 191 Engine Repair & Rebuild.....	4
ASE 162 Auto Engine Service.....	2
ASE 210 Auto Power & ABS Brake Systems.....	2
ASE 291 Auto/Diesel Body Electrical.....	3
ASE 292 Auto Computers & Ignition Systems.....	3
ASE 293 Automotive Fuel Injection & Emissions.....	3
ASE 235 Drivability & Diagnosis.....	2
ASE 294 Steering & Suspension III.....	3
ASE 250 Auto Trans /Transaxle Service.....	1
ASE 251 Auto Trans/Transaxle Repair.....	3

ASE 252 Advanced Auto Trans/Transaxle.....	2
ASE 264 Intro to HVAC Systems.....	1
ASE 295 HVAC Systems.....	3
Total Credits Required	75 Credits

Suggested Electives

ASE 165 Automotive Machining.....	2
ASE 220 Special Electronics Training.....	2
WEL 140 Welding Practices & Procedures.....	1.5
ACC 101 Fundamentals of Accounting.....	3
COM 115 Public Speaking.....	3

AUTOMOTIVE TECHNOLOGY

CERTIFICATES

Automotive Maintenance & Inspection (AMI) (6 credits)

ASE 101 Automotive Shop Orientation.....	2
ASE 103 Automotive Maintenance I.....	2
ASE 150 Manual Drive Train & Axle Maint.....	2

Automotive Brakes Certificate (ABI) (8 credits)

ASE 101 Auto Shop Orientation.....	2
ASE 110 Auto Brake Service I.....	2
ASE 111 Auto Brake Service II.....	2
ASE 210 Auto Power & ABS Brake Systems.....	2

Automotive Electrical Certificate (AB6) (7 credits)

ASE 101 Auto Shop Orientation.....	2
ASE 120 Basic Auto Electricity.....	2
ASE 122 Auto Electric Safety Systems.....	1
ASE 123 Starting & Charging System.....	2

Manual Powertrains & Clutches Certificate (AB2) (9 credits)

ASE 101 Auto Shop Orientation.....	2
ASE 150 Manu Drive Train & Axle Maint.....	2
ASE 151 Manual Trans/Transaxle I.....	2
ASE 192 Manual Trans/Transaxle II.....	3

Automotive Heating & A/C Certificate (AB) (6 credits)

ASE 101 Auto Shop Orientation.....	2
ASE 264 Intro to HVAC Systems.....	1
ASE 295 HVAC Systems.....	3

Automotive Steering & Suspension Certificate (AB8) (9 credits)

ASE 101 Auto Shop Orientation.....	2
ASE 140 Steering & Suspension I.....	2
ASE 141 Steering & Suspension II.....	2
ASE 294 Steering & Suspension III.....	3

Automotive Engines Certificate (AB4) (14 credits)

ASE 101 Auto Shop Orientation.....	2
ASE 130 General Engine Diagnosis.....	2
ASE 160 Auto Engine Repair.....	2
ASE 191 Engine Repair & Rebuild.....	4
ASE 162 Automotive Engine Service.....	2
ASE 165 Automotive Machining.....	2

Automatic Transmission**Service Certificate (AB5) (8 credits)**

ASE 101 Auto Shop Orientation.....	2
ASE 250 Automatic Trans/Transaxle Service.....	1
ASE 251 Automatic Trans/Transaxle Repair.....	3
ASE 252 Advanced Automatic Trans/Transaxle.....	2

Advanced Automotive**Electrical Certificate (AB7) (10 credits)**

ASE 101 Auto Shop Orientation.....	2
ASE 291 Auto/Diesel Body Electrical.....	3
ASE 292 Auto Computers & Ignition Sys.....	3
ASE 235 Drivability & Diagnosis.....	2

Automotive Drivability &**Emissions Certificate (DREM) (12 credits)**

ASE 101 Auto Shop Orientation.....	2
ASE 134 Auto Fuel & Emissions System I.....	2
ASE 292 Auto Comp & Ignition System.....	3
ASE 293 Automotive Fuel Injection & Emissions II.....	3
ASE 235 Drivability & Diagnosis.....	2

Note: ASE 101 is required as a pre-requisite for all courses in the automotive program.

ASSOCIATE OF APPLIED SCIENCE DEGREE**IN BUSINESS with Emphasis in:****Accounting CIP 520201 (BUAE)****Management CIP 520201 (BUME)**

The Associate of Applied Science (A.A.S.) degree in Business is awarded to a student who successfully completes a program with a business emphasis. The business programs are designed to aid students in the development of skills, knowledge, and attitudes related to immediate employment in a full-time skilled and/or a paraprofessional business occupation.

General Education Requirements 15 Credits

For all AAS Options:

Communications (3 ENG CR and 3 COM CR) 6 credits

ENG 121 English Communication I OR

ENG 131 Technical Writing I OR

ENG 115 Tech English & Communication..... 3

COM 115 Public Speaking OR

COM 125 Interpersonal Communications..... 3

Mathematics 3 credits

Choose from MAT 102, MAT 107, MAT 112, BUS 226 or any MAT – 120 or higher.

Science & Computer Sciences 3 credits

Choose from CIS, MGD, CWB 110 or any Colorado GT science course not otherwise used.

Arts & Humanities 3 credits

Any Colorado GT course in ANT, ART, GEO, HIS, HUM, LIT, MUS, PHI, POS, PSY, SPA, SOC or THE; or MAN 128, ECO 101, ECO 201 or ECO 202 if not otherwise used.

Business Core Requirements (Both Options) 16 Credits

BUS 115 Introduction to Business..... 3

BUS 216 Legal Environment of Business..... 3

BUS 217 Business Communications & Report Writing..... 3

ACC 121 Principles of Accounting I..... 4

CIS 118 Introduction to PC Applications..... 3

ACCOUNTING EMPHASIS**Program Requirements - AAS**

In addition to General Education and the Business Core requirements, the following business courses are required:

ACC 115 Payroll Accounting..... 3

ACC 122 Principles of Accounting II..... 4

ACC 235 Computerized Accounting-Small Business..... 3

ACC 132 Tax Help CO* AND..... 2

ACC 133 Tax Help CO Practicum..... 1

CIS 175 Special Topics..... 1

MAN 226 Principles of Management..... 3

ECO 101, 201 or 202..... 3

Electives..... 9

Total requirements for the AAS Business – Accounting emphasis degree: General Education (15), Business Core (16) and Accounting Emphasis (29).

C 122 Principles of Accounting II..... 4

BUS 102 Entrepreneurial Operations..... 3

MAN 128 Human Relations in Organizations..... 3

MAN 215 Organizational Behavior..... 3

MAN 226 Principles of Management..... 3

ECO 101, 201 or 202..... 3

CIS 175 Special Topics..... 1

Electives..... 9

Total required credits for the AAS Business – Management emphasis degree: General Education (15), Business Core (16) and Management Emphasis (29).

Management Emphasis (29).

Business Electives

Choose from ACC, BUS, ECO, MAN, MAR, MGD, PHI 205 or other approved course.

ACCOUNTING CLERK I CERTIFICATE**(recommended for AA students)****CIP 520201 (BAC1)****Required Core Courses: 21 credits**

BUS 115 Introduction to Business..... 3

ACC 115 Payroll Accounting..... 3

ACC 121 Principles of Accounting I..... 4

ACC 122 Principles of Accounting II..... 4

ACC 235 Computerized Accounting-Small Business..... 3

CIS 118 Introduction to PC Applications 3

CIS 175 Special Topics..... 1

ACCOUNT CLERK II CERTIFICATE (recommended for AAS Students) CIP 520201 (ACL)

<u>Required Core Courses:</u>	<u>45 credits</u>
BUS 115 Introduction to Business.....	3
BUS 216 Legal Environment of Business.....	3
BUS 217 Bus Communications/Report Writing.....	3
ACC 115 Payroll Accounting.....	3
ACC 121 Principles of Accounting I.....	4
ACC 122 Principles of Accounting II.....	4
ACC 235 Computerized Accounting-Small Business.....	3
ACC 132 Tax Help Colorado.....	2
ACC 133 Tax Help Colorado Practicum.....	1
CIS 118 Introduction to PC Applications.....	3
CIS 175 Special Topics.....	1
MAN 226 Principles of Management.....	3
Electives	9 Credits
ECO 101, ECO 201 or ECO 202.....	3

BUSINESS ADMINISTRATION CERTIFICATE (recommended for AAS students) CIP 520201 (BUAD)

<u>Required Core Courses:</u>	<u>16 credits</u>
BUS 115 Introduction to Business.....	3
BUS 216 Legal Environment of Business.....	3
BUS 217 Business Communication.....	3
ACC 121 Principles of Accounting I.....	4
CIS 118 Introduction to PC Applications	3

BUSINESS MANAGEMENT CERTIFICATE (recommended for AAS students) CIP 520201 (BUMG)

<u>Required Core Courses</u>	<u>45 credits</u>
BUS 115 Introduction to Business.....	3
BUS 216 Legal Environment of Business.....	3
BUS217 Business Communication.....	3
ACC 121 Principles of Accounting I.....	4
CIS 118 Introduction to PC Applications.....	3
ACC 122 Principles of Accounting II.....	4
BUS 102 Entrepreneurial Operations.....	3
MAN 128 Human Relations in Organizations.....	3
MAN 226 Principles of Management.....	3
MAN 215 Organization Behavior.....	3
ECO 101, 201 or 202.....	3
CIS 175 Special Topics.....	1
Electives.....	9

FOUNDATIONS OF BUSINESS I CERTIFICATE (recommended for AA students) CIP 520201 (FBU1)

<u>Required Core Courses</u>	<u>16 credits</u>
BUS 115 Introduction to Business.....	3
ACC 121 Principles of Accounting I.....	4
<i>Mathematics</i>	
Choose from MAT 112, BUS 226 or MAT 121.....	3
<i>Communications (3 ENG CR OR 3 COM CR)</i>	
ENG 121 English Composition I <u>OR</u>	3
COM 115 Public Speaking <u>OR</u>	
COM 125 Interpersonal Communications.....	3
<i>Electives</i>	
Choose from ACC, BUS, C/SECO, MAN, MAR or PHI 205.....	3

FOUNDATIONS OF BUSINESS II CERTIFICATE (recommended for AA students)

CIP 520201 (FBU2)

<u>Required Core Courses</u>	<u>23 credits</u>
BUS 115 Introduction to Business.....	3
ACC 121 Principles of Accounting I.....	4
ACC 122 Principles of Accounting II.....	4
<i>Mathematics</i>	3
Choose from MAT 112, BUS 226 or MAT 121.....	3
<i>Communications (3 ENG CR OR 3 COM CR)</i>	
ECO 101 Economics of Social Issues OR	
ECO 201 Principles of Macroeconomics OR	
ECO 202 Principles of Microeconomics.....	3
ENG 121 English Composition I <u>OR</u>	3
COM 115 Public Speaking <u>OR</u>	
COM 125 Interpersonal Communications.....	3
<i>Electives</i>	
Choose from ACC, BUS, C/S, ECO, MAN, MAR or PHI 205....	3

BASIC TAX PREPARATION CERTIFICATE CIP 520201 (BA3)

<u>Required Core Courses</u>	<u>3 credits</u>
ACC 132 Tax Help Colorado.....	2
ACC 133 Tax Help Colorado Practicum.....	1

COSMETOLOGY CERTIFICATE

CIP 120401 (COSY)

Cosmetology is one of the most demanding, rewarding, diversified, and fastest growing specialties in the world today. This program is designed to provide high quality theory and practical training necessary to meet the requirements for today's cosmetologists. This one-year program begins fall semester of each year and meets the training required by Colorado's Department of Regulatory Agency/Cosmetology-Barber Board for state licensing. A Northeastern Certificate in Cosmetology will be granted upon successful completion of all required courses with a cumulative grade of 2.0 ("C or better"). Graduates are eligible to take the state board exam to obtain a cosmetology license in the state of Colorado. The Cosmetology department is housed in a 5,082 square foot facility and offers a wide range of salon services to the community.

Program Requirements	Credits
COS 103 Introduction to Hair & Scalp.....	1
COS 110 Introduction to Hair Coloring.....	2
COS 111 Intermediate I: Hair Coloring.....	2
COS 120 Introduction to Haircutting.....	2
COS 121 Intermediate I: Haircutting.....	2
COS 130 Introduction to Hairstyling.....	2
COS 131 Intermediate I: Styling.....	2
COS 140 Introduction to Chemical Texture.....	1
COS 141 Intermediate I: Chemical Texture.....	1
COS 150 Laws, Rules & Regulations.....	1
COS 160 Intro to Infection Control & Prevention.....	2
COS 161 Intermediate I: Infection Control.....	1
COS 203 Intermediate I: Hair & Scalp.....	1
COS 210 Intermediate II: Hair Coloring.....	2
COS 211 Advanced Hair Coloring.....	2
COS 220 Intermediate II: Haircutting.....	2
COS 230 Intermediate II: Styling.....	2
COS 240 Intermediate II: Chemical Texture.....	1
COS 250 Bus Management/Personal Skills/Ethics.....	1
COS 260 Intermediate II: Infection Control.....	2
COS 261 Advanced Infection Control.....	1
EST 110 Introduction to Facials & Skin Care.....	3
EST 111 Intermediate Skin Care.....	3
EST 212 Hair Removal.....	3
NAT 110 Introduction to Nail Care.....	3
NAT 111 Intermediate I: Nail Care.....	2
NAT 210 Advanced: Nail Care.....	2
NAT 211 Application of Artificial Nails.....	5
NAT 290 Advanced Nail Technician Studies.....	1
Total required for Cosmetology Certificate	54 Credits

DIESEL TECHNOLOGY

ASSOCIATE OF APPLIED SCIENCE DEGREE

CIP 470613 (DSL)

The Diesel Technology program is a training program which will focus on the service, repair, and maintenance of medium/heavy duty trucks as well as agricultural and industrial equipment. All courses will follow ASE Education standards.

Students will be working on real-world problems to diagnose and repair H/D trucks, agricultural equipment and construction equipment.

Students gain the hands-on experience they need to become successful technicians. Only students with a cumulative 2.0 GPA or better at the end of their 2nd semester will be allowed to continue to their 3rd semester.

Graduates of the Diesel Technology program will receive either a Northeastern Certificate or an Associate of Applied Science degree.

General Education Requirements **15 Credits**

MAT 102 Skilled Trades & Industrial Math.....	2
REA 130 Applied & Technical Reading.....	2
BUS 102 Entrepreneurial Operations.....	3
PHY 103 Physics for CTE Occupations.....	2
ENG 115 Technical English & Communication	

OR

ENG 121 English Composition I.....	3
MAN 128 Human Relations in Org	3

Program Requirements **57 Credits**

DPM 101 Diesel Shop Orientation.....	2
DPM 103 Diesel Engines I.....	4
DPM 104 Diesel Engine Cooling System	2
DPM 105 Heavy Duty Powertrains I.....	3
DPM 120 Basic Heavy Duty Electricity.....	2
DPM 192 Hydraulics Systems I.....	1
DPM 122 Hydraulics Systems II.....	3
DPM 126 Heavy Duty Starting & Charging.....	3
DPM 136 H/D Cab I&M.....	2
DPM 140 Heavy Duty Steering & Suspension I.....	3
DPM 191 Diesel Fuel Systems.....	2
DPM 203 Diesel Engines II.....	4
DPM 205 Heavy Duty Powertrains II.....	3
DPM 206 Heavy Duty Brakes I.....	3
DPM 207 Heavy Duty Brakes II.....	3
DPM 209 Heavy Duty Dynamic System.....	2
DPM 210 Diesel Air Induction & Exhaust.....	2
DPM 222 Heavy Duty Lighting & Instrumentation.....	3
DPM 240 Heavy Duty Steering & Suspension II.....	3
DPM 264 H/D Heating & Ventilation.....	2
DPM 265 H/D A/C Systems Service.....	3
DPM 291 H/D Body Electrical Systems.....	2

Total Credits Required **72 Credits**

Suggested Electives

ASE 165 Engine Machining.....	2
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DIESEL TECHNOLOGY CERTIFICATES

H/D Brakes Certificate (DT2) **10 Credits**

DPM 101 Diesel Shop Orientation.....	2
DPM 206 Heavy Duty Brakes I.....	3
DPM 207 Heavy Duty Brakes II.....	3
DPM 209 Heavy Duty Dynamic System.....	2

Diesel Electrical Certificate (DT3) 14 Credits

DPM 101 Diesel Shop Orientation.....	2
DPM 120 Basic Heavy Duty Electricity.....	2
DPM 126 Heavy Duty Starting & Charging.....	3
DPM 136 Heavy Duty Cab I&M.....	2
DPM 222 Heavy Duty Lighting & Instrumentation.....	3
DPM 291 Heavy Duty Body Electrical Systems.....	3

H/D Steering & Suspension Certificate (DT4) 8 Credits

DPM 101 Diesel Shop Orientation.....	2
DPM 140 Heavy Duty Steering & Suspension I.....	3
DPM 240 Heavy Duty Steering & Suspension II.....	3

Diesel HVAC Certificate (DT5) 7 Credits

DPM 101 Diesel Shop Orientation.....	2
DPM 264 Heavy Duty Heating & Ventilation.....	2
DPM 265 Heavy Duty A/C Systems Service.....	3

Diesel Engines Certificate (DT6A) 16 Credits

DPM 101 Diesel Shop Orientation.....	2
DPM 103 Diesel Engines I.....	4
DPM 104 Diesel Engine Cooling System.....	2
DPM 191 Diesel Fuel Systems.....	2
DPM 203 Diesel Engines II.....	4
DPM 210 Diesel Air Induction & Exhaust.....	2

Hydraulics Certificate (DT7) 6 Credits

DPM 101 Diesel Shop Orientation.....	2
DPM 192 Hydraulics Systems I.....	1
DPM 122 Hydraulics Systems II.....	3

H/D Powertrains Certificate (DT8) 8 Credits

DPM 101 Diesel Shop Orientation.....	2
DPM 105 Heavy Duty Powertrains I.....	3
DPM 205 Heavy Duty Powertrains II.....	3

EARLY CHILDHOOD

For those who want the opportunity to provide a positive influence on the lives of children and their families, early childhood is a fascinating field in which to work. The demand for early childhood educators is great. Because of the large numbers of families in which all adults are employed, trends in the national economy, government priorities for children and their families, and public demand for services this field continues to grow.

See Page 55 for AA degree requirements in Early Childhood.

EARLY CHILDHOOD EDUCATION

ASSOCIATE OF APPLIED SCIENCE DEGREE CIP 131210 (ECE)

The Early Childhood Associate Teacher Program is designed to prepare persons to meet the requirements for a variety of positions within early childhood programs. Upon completion of this degree, individuals will be group leader qualified. They will be able to independently implement program activities and will be responsible for the care and education of a group of children.

Individuals will also have the necessary coursework to establish director qualifications and infant toddler nursery supervisor qualification in the State of Colorado after completing the work experience requirement.

Early childhood teachers and directors work in a variety of settings: private and public preschool and child care settings supported and operated by the employer, hospitals, recreation centers, before/after-school programs, Head Start, and other programs serving children birth to age eight. A Northeastern Associate of Applied Science Degree is granted upon completion.

General Education Requirements 18 Credits**Communication 6 Credits**

ENG 121 English Composition I.....	3
COM 115 Public Speaking <u>OR</u>	
COM 125 Interpersonal Communication.....	3
<i>(ECE - A.A. can only take COM 115)</i>	

Mathematics 3 Credits

MAT 107 Career Mathematics.....	3
MAT 112 Financial Mathematics.....	3
MAT 121 College Algebra.....	4
MAT 135 Introduction to Statistics.....	3

Science or Computer Science 3 Credits

AST 101 Astronomy I.....	4
BIO 111 General College Biology I.....	5
CIS 118 Introduction to PC Applications.....	3
EDU 261 Teaching, Learning, Technology <u>or</u> another approved Science or Computer Science course.....	3

Social & Behavioral Sciences 6 Credits

PSY 101 General Psychology I <u>OR</u>	
PSY 102 General Psychology II.....	3
SOC 101 Introduction to Sociology I.....	3

Program Requirements 51 Credits

ECE 101 Intro to Early Childhood Profession.....	3
ECE 102 Intro to Early Childhood Lab Techniques.....	3
ECE 103 Guidance Strategies for Children.....	3
ECE 108 Assessment Process in ECE.....	1
ECE 111 Infant/Toddler Theory and Practice.....	3
ECE 112 Intro to Infant/Toddler Lab Techniques.....	3
ECE 205 Nutrition, Health, & Safety.....	3
ECE 209 Observing/Utilizing Assessment.....	1
ECE 220 Curriculum Development: Methods & Tech.....	3
ECE 226 Creativity and the Young Child.....	3
ECE 228 Language & Literacy.....	3
ECE 238 Child Growth & Development.....	3
ECE 240 Admin. of Early Childhood Care & Edu. Programs	3
ECE 241 Admin: Human Relations.....	3
ECE 256 Working w/ Parents, Families.....	3
ECE 260 Exceptional Child <u>OR</u>	
ECE 265 Working w/Parents & Families w/Disabilities.....	3
ECE 288 Practicum: Early Childhood Ed.....	6
HWE 103 Community First Aid & CPR.....	1

EARLY CHILDHOOD: DIRECTOR CERTIFICATE

CIP 131210 (ED3)

The Director Certificate is designed for persons who have 24 months or more of verified work experience with young children and wish to establish director qualifications in the State of Colorado. The work experience must be full days working directly with children in a child development program.

Program Requirements **36 Credits**

ECE 101 Intro to Early Childhood Profession.....	3
ECE 102 Intro to Early Childhood Lab Techniques.....	3
ECE 103 Guidance Strategies for Children.....	3
ECE 111 Infant/Toddler Theory.....	3
ECE 205 Nutrition, Health, & Safety.....	3
ECE 220 Curriculum Development: Methods & Tech.....	3
ECE 238 Child Growth & Development.....	3
ECE 240 Admin. of Early Childhood Care & Edu. Programs...	3
ECE 241 Admin: Human Relations.....	3
ECE 260 Exceptional Child.....	3
PSY 101 General Psychology I	3
SOC 101 Introduction to Sociology I.....	3

EARLY CHILDHOOD: GROUP LEADER CERTIFICATE

CIP 131210 (ED2Y)

The Group Leader Certificate is designed for persons who have nine months or more of verified work experience with young children and wish to establish group leader qualifications within the State of Colorado. The work experience must be in the care and supervision of four or more children under 6 years of age who are not related to the individual.

Program Requirements **16 Credits**

ECE 101 Intro to Early Childhood Profession.....	3
ECE 102 Intro to Early Childhood Lab Techniques.....	3
ECE 103 Guidance Strategies for Children.....	3
ECE 209 Observing/Utilizing Assessment Instruments.....	1
ECE 220 Curriculum Development.....	3
ECE 238 Child Growth & Development.....	3

EARLY CHILDHOOD: NANNY CERTIFICATE

CIP 131210 (ED8)

The Early Childhood Nanny program is designed to professionally prepare and enable students to be in-home childcare professionals. They work as a member of the family team to provide for children's physical, emotional, social, and intellectual needs.

Program Requirements **35 Credits**

ECE 101 Intro to Early Childhood Profession.....	3
ECE 102 Intro to Early Childhood Lab Techniques.....	3
ECE 103 Guidance Strategies for Children.....	3
ECE 111 Infant/Toddler Theory and Practice.....	3
ECE 112 Intro to Infant/Toddler Lab Techniques.....	3
ECE 130 The Professional Nanny.....	3
ECE 131 Nanny Methods & Techniques.....	3
ECE 205 Nutrition, Health, & Safety.....	3
ECE 209 Observing Young Children.....	1
ECE 238 Child Growth & Development.....	3

ECE 256 Working w/ Parents, Families.....	3
ECE 260 The Exceptional Child.....	3
HWE 103 Community First Aid & CPR.....	1
Suggested Electives	3 Credits
ENG 121 English Composition I.....	3

EMERGENCY MEDICAL SERVICES CIP 510904 (EMS2)

Our EMS degree and certificates prepare a student to go right into the workforce. EMS provides care for persons who are in need of treatment right away. EMS professionals use their skills to stabilize patients and transport them for additional care. Although many college credits within this degree are accepted for transfer by four year colleges, the career focused courses are not designed to transfer.

Essential Functions: The ability to communicate verbally, the ability to lift, care, and balance up to 125 pounds (250 with assistance), the ability to interpret written, oral and diagnostic form instructions, the ability to use good judgment and remain calm in high-stress situations, the ability to work effectively in an environment with loud noises and flashing lights, the ability to calculate weight and volumes ratios and read small print, both under threatening time constraints, the ability to read and understand English language manuals and road maps, to accurately discern street signs and address numbers, the ability to document, in writing, all relevant information in prescribed format in light of legal ramifications of such, the ability to converse in English with coworkers and hospital staff as to status of patient. Good manual dexterity. The ability to bend, stoop, and crawl on uneven terrain, and the ability to withstand varied environmental conditions such as extreme heat, cold, and moisture. The ability to work in low light, confined spaces, and other dangerous environments.

ASSOCIATE OF APPLIED SCIENCE DEGREE

General Education Requirements **17 Credits**

ENG 121 English Composition I.....	3
ENG 122 English Composition II <u>OR</u>	
COM 115 Public Speaking.....	3
MAT 103 Math for Clinical Calculation <u>OR</u> higher.....	3
BIO 111 General College Biology with Lab.....	5
PSY 102 General Psychology II.....	3

Program Requirements **29.5 Credits**

BIO 201 Human Anatomy and Physiology I.....	4
BIO 202 Human Anatomy and Physiology II.....	4
CIS 118 Introduction to PC Applications.....	3
EMS 121 EMT Fundamentals.....	3
EMS 122 EMT Medical Emergencies.....	4
EMS 123 EMT Trauma Emergencies.....	2
EMS 170 EMT – Clinical.....	1
HPR 178 Medical Terminology.....	2
HPR 102 CPR for Professionals.....	5
PSY 235 Human Growth & Development.....	3
PSY 238 Child Development.....	3

Suggested Electives (Select a minimum of 13.5 credits)

ACC 101 Fundamentals of Accounting.....	3
BUS 216 Legal Environment of Business.....	3
BUS 217 Business Communication & Report Writing.....	3
FST 107 Hazmat Operations.....	3
HWE 100 Human Nutrition.....	3
HWE 117 Mental Health First Aid.....	1
MAN 128 Human Relations in Organizations.....	3
SOC 101 Sociology.....	3

*Students may also choose any GT Pathways course.

EMERGENCY MEDICAL TECHNICIAN:**BASIC CERTIFICATE****CIP 510904 (EMTB)**

Upon completion of the Emergency Medical Technical Program the student will meet the prerequisite for taking the National Registry Examination for Emergency Medical Technicians. The program will teach skills in emergency treatment procedures as used with an ambulance service.

Required Courses	Credits
10 credits	
EMS 121 EMT Fundamentals.....	3
EMS 122 EMT Medical Emergencies.....	4
EMS 123 EMT Trauma Emergencies.....	2
EMS 170 Emergency Medical Technician –Clinical.....	1

EMERGENCY MEDICAL TECHNICIAN:**CONTINUING EDUCATION**

Northeastern is approved by the Colorado EMS Department as a Continuing Education Provider Group at the Basic and Intermediate level. Contact the EMS Coordinator for information about courses available.

HEALTH AND SAFETY**CPR AND FIRST AID**

Health and Safety offers cardio pulmonary resuscitation (CPR) classes to lay responders and professional rescuers. Training is available for community members, professional health care providers, law enforcement agencies, fire departments, and businesses.

Universal certificates of completion are available for participants who meet all course requirements for that particular Health and Safety course.

**EQUINE BUSINESS MANAGEMENT
ASSOCIATE OF APPLIED SCIENCE DEGREE****CIP 010507 (EQBM)**

General Education Requirements	15 Credits
AGE 102 Agriculture Economics <u>OR</u>	
AGB 102 Foundations of Agribusiness.....	3
ASC 100 Animal Science.....	3
COM 115 Public Speaking.....	3
ENG 115 Technical English & Communication <u>OR</u>	
ENG 121 English Composition I <u>OR</u>	

ENG 131 Technical Writing I.....	3
MAT 107 Career Math.....	3

Program Requirements 31 Credits

AGB 120 Agriculture Sales.....	3
AGB 218 Computerized Farm Records.....	3
AGB 228 Agribusiness Management.....	3
AGE 208 Agriculture Finance.....	3
ASC 102 Intro to Equine Science.....	4
ASC 225 Feeds and Feeding.....	4
CIS 118 Intro to PC Applications.....	3
EQM 158 Equine Reproduction.....	2
EQM 210 Equine Health.....	2
EQM 211 Equine Health Lab.....	1
MAN 205 Event Planning: Equine.....	3

Suggested Electives 14 Credits

Elective courses must be approved by a Northeastern Advisor or Program Coordinator. Preference for AGB, AGE, AGP, AGR, AME, AGY, RAM, ASC, EQM, BUS, MAN, MAR, MGD, or other related course work. The student must demonstrate a minimum skill level in handling or riding horses. There are two methods to complete the requirement: Prior equine skill experience submitted by documentation involving handling, training, care, or training of horses or course work involving skills in horse handling, riding, or training or courses designed for preparation in competitive equine events such as Rodeo or Versatility Ranch Horse.

**EQUINE BUSINESS MANAGEMENT
CERTIFICATE****CIP 010507 (EQBM)**

Credits	30
Required Courses	9 Credits
CIS 118 Intro to PC Applications.....	3
ENG 115 Technical English & Communication <u>OR</u>	
ENG 131 Technical Writing I <u>OR</u> Higher English.....	3
MAT 107 Career Math.....	3

Program Electives 21 Credits

All elective courses must be approved by a NORTHEASTERN Advisor or Program Coordinator. Minimum of six (6) credits in Equine related courses. Minimum of nine (9) additional credits in Agriculture or Business related courses. No more than one of the following courses may be used to fulfill requirements: EQT 101, EQT 102, EQT 201, or EQT 202. A maximum of two (2) credits may be used from EQM 101, EQM 102, EQM 201, or EQM 202. The student must demonstrate a minimum skill level in handling or riding horses. There are two methods to complete the requirement: Prior equine skill experience submitted by documentation involving handling, training, care, or training of horses or course work involving skills in horse handling, riding, or training or courses designed for preparation in competitive equine events such as Rodeo or Versatility Ranch Horse.

EQUINE MANAGEMENT

ASSOCIATE OF APPLIED SCIENCE DEGREE

CIP 010507 (EQM)

The horse industry in the United States is a growing, dynamic sector of agriculture with a broad spectrum of jobs expanding in the industry. The Equine Management Program is designed to provide the students with basic, general skills and background knowledge in all areas of the equine industry such as reproduction, health, selection, and general management, however the primary emphasis is placed on training of the Western Horse. Should students aspire to prepare for management opportunities in breeding operations, shed rows, or training facilities, the two-year program provides access to the business, economic, technical, and general education classes necessary to become a competent manager. Students desiring a four-year Equine Science degree should enroll in our transfer *Equine Sciences major*.

Enrollment is limited in the Equine Management program to enhance the individual instruction. This allows students to meet individual career objectives. Practical experience is provided in many of the classes as well as the Internship section of the program which is completed in the summer following their sophomore year. All students desiring admission to the Equine Management program must complete an application and go through an oral interview and a practical riding exam before admission is granted.

General Education Requirements **16 Credits**

ASC 100 Animal Sciences.....	3
ASC 102 Introduction to Equine Science.....	4
AGE 102 Agricultural Economics <u>OR</u>	
AGB 102 Foundations of Agribusiness.....	3
ENG 115 Technical English & Communication <u>OR</u>	
ENG 121 English Composition I <u>OR</u>	
ENG 131 Technical Writing I.....	3
MAT 107 Career Math <u>OR</u> Higher Math.....	3

Program Requirements **55.5 Credits**

AGB 218 Computerized Farm Records.....	3
AGB 228 Agribusiness Management <u>OR</u>	
AGE 205 Farm and Ranch Management.....	3
AME 105 Basic Agricultural Mechanic Skills.....	2
ASC 225 Feeds and Feeding.....	4
EQM 101 Stable Operations I.....	1
EQM 102 Stable Operations II.....	1
EQM 158 Equine Reproduction.....	2
EQM 201 Stable Operations III.....	1
EQM 202 Stable Operations IV.....	1
EQM 210 Equine Health.....	2
EQM 211 Equine Health Lab.....	1
EQM 280 Equine Internship.....	8
EQM 289 Equine Capstone.....	0.5
EQT 101 Intro to Horse Training.....	5
EQT 102 Beginning Colt Training.....	6
EQT 201 Intermediate Colt Training.....	6
EQT 202 Advanced Colt Training.....	6
MAN 205 Event Planning.....	3

EQUINE MANAGEMENT - TRAINING

CERTIFICATE

CIP 010507 (EQU4)

Credits **30**

Required Courses **13 Credits**

EQM 101 Stable Operations I.....	1
EQM 102 Stable Operations II.....	1
EQT 101 Intro to Horse Training.....	5
EQT 102 Beginning Horse Training.....	6

Program Electives **17 Credits**

All elective courses must be approved by a NORTHEASTERN Advisor or Program Coordinator. Preference for Equine, Agriculture, or Business courses.

FIRE SCIENCE TECHNOLOGIES

CIP 430203 (FIRE)

Fire Science Technology is the study of:

The physical properties of Fire
 Strategy and tactics of fire suppression and prevention
 Life Safety Engineering
 Fire Administration
 Fire and Public Education
 Hazardous Materials Handling, Response and Transportation
 Arson Investigation
 Emergency Medical Response and Transportation
 Disaster Management, Preplanning and Recovery

The specialized knowledge gained through an education in fire science equips first responders with the skills and mental tools to effectively save lives and protect property and the environment. Careers in emergency services require courage, endurance, integrity and the ability to make good and quick decisions in emergencies. Teamwork is necessary to safely solve an emergency situation. The qualities of hard work and self-discipline must be quickly mastered through both online and traditional learning opportunities. You will take these characteristics from the classroom to the fire station and throughout your life. You may find through your training experience that you have a desire to follow other career paths within the emergency services profession. Some of the exciting careers include:

Firefighter
 Fire Investigator
 Special Rescue and Tactics Technician
 Fire Administration Manager/Chief
 Environmental Crimes Investigator
 Public Education Specialist
 Hazardous Materials Technician/Coordinator
 Industrial Safety Officer
 FEMA Response Agent
 Emergency Manager
 Paramedic

In order to provide the best services and marketability, it is our desire to graduate students with the following state certifications:

Fire Fighter I
 Hazardous Materials Operations Level
 Wildland Fire Fighter (Red Card)
 Emergency Medical Technician Basic

Essential Functions:

- Able to communicate effectively in English, both verbally and in writing
- Lift and carry 50 to 100 pounds
- Stand, walk on rough ground or uneven surfaces, run, balance, twist or turn, reach, pull, climb stairs and ladders, work at heights, balance, bend/stoop, crouch/squat, crawl/kneel, etc.
- Able to see near and far

General Education Requirements 16 Credits

BIO 104 Biology: A Human Approach.....	4
CIS 118 Intro to PC Applications.....	3
ENG 115 Technical English & Communication <u>OR</u>	
ENG 121 English Composition I <u>OR</u>	
ENG 131 Technical Writing.....	3
MAT 103 Math for clinical calculations or higher.....	3
PSY 102 General Psychology II.....	3

Program Requirements 34.5 credits

FST 100 Firefighter I.....	9
FST 102 Principles/Emergency Services.....	3
FST 105 Building Construction for Fire Professionals.....	3

FIRE PROFESSIONALS

FST 107 Hazardous Materials Operations.....	3
FST 110 Job Placement and Assessment.....	3
FST 128 Vehicle Extrication Technician.....	3
FST 202 Strategy and Tactics.....	3
FST 209 Fire Protection Systems.....	3
FSW 100 S-190 Intro to Wildland Fire.....	1
FSW 101 S-130 Firefighting Training.....	2
HPR 102 CPR for Professionals.....	0.5
PED 101 Conditioning Lab Fire Academy.....	1

Other Electives - (Select a minimum of 13 elective credits)

FST 101 Firefighter II.....	3
FST 106 Fire Inspection Practices.....	3
FST 150 Fire Prevention Education.....	3
FST 170 Clinical I.....	1
FST 175 Special Topics.....	3
FST 201 Instructional Methodology.....	3
FST 203 Fire Hydraulics and Water Supply.....	4
FST 204 Fire Codes and Ordinances.....	3
FST 205 Fire Investigation.....	3
FST 253 National Incident Management.....	3
FST 254 HazMat Technician.....	3
FST 259 Wildland Firefighting Tactics.....	3
FST 280 Internship.....	1-12
EMS 116 First Responder	3
EMS 121 EMT Fundamentals.....	3
EMS 122 EMT Medical Emergencies.....	4
EMS 123 EMT Trauma Emergencies.....	2
EMS 130 EMT Intravenous Therapy.....	2
EMS 170 EMT Medical Tech Clinical.....	1
EDU 250 CTE in Colorado.....	1
EDU 260 Adult Learning & Teaching.....	3
REA 130 Applied Technical Reader.....	2

TOTAL HOURS FOR GRADUATION: 63.5

NOTE: Students interested in a fire career that incorporates Emergency Medical Technician-Paramedic level work must successfully complete both Anatomy and Physiology I and II (BIO 201/202) courses.

FIREFIGHTER I

This program is designed to prepare individuals who have little or no experience with the firefighting profession for entry-level positions in the fire service industry. The course 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. Upon successful completion the student will receive a Northeastern certificate and is eligible to register for the Colorado State Firefighter I Exam which is an IFSAC accredited certificate.

BASIC LEVEL CERTIFICATE**CIP 430203 (FIFB)****Program Requirements 13 Credits**

FST 100 Firefighter I.....	9
FST 107 HazMat Operations (Level 1).....	3
PED 101 Conditioning Lab.....	1

ADVANCED LEVEL CERTIFICATE (FIRE)**Program Requirements 16.5 Credits**

FST 100 Firefighter I.....	9
FST 107 HazMat Operations (Level 1).....	3
FSW 100 Intro to Wildland Fire Behavior.....	1
FSW 101 Firefighting Training.....	2
HPR 102 CPR for Professionals.....	0.5
PED 101 Conditioning Lab.....	1

FIREFIGHTER INSTRUCTOR CERTIFICATE (FIR3)

For those who have experience and training and would like to teach others in firefighting.

Program Requirements 7 Credits

FST 201 Instructional Methodology.....	3
EDU 250 CTE in Colorado.....	1
EDU 260 Adult Learning & Teaching.....	3

INDUSTRIAL MAINTENANCE CERTIFICATE (WE7)

This certificate is designed to give the student the skills to work in an industrial or commercial facility. The student would have the ability to work safely while performing maintenance and repair of mechanical equipment.

Program Requirements	18.5 Credits
EIC 101 Job Training and Safety	3
ELT 106 Fundamentals of AC/DC	4
MIL 101 Lifting Devices	1
IMA 100 Intro to Industrial Maintenance	3
IMA 120 Industrial Rotating Equipment	3
MAT 107 Career Math	3
Minimum of 1.5 credits in welding courses	1.5

*Open to any student. Must pass EIC 101 with a 90%.

INDUSTRIAL MOTOR CONTROL CERTIFICATE (WE8)

This certificate is designed to give the student the skills to work in an industrial or commercial facility. The student would have the ability to work safely while performing maintenance and repair of electrical systems.

Program Requirements	27 Credits
CIS 118 Intro to PC Applications	3
EIC 101 Job Training and Safety	3
ELT 106 Fundamentals of AC/DC	4
ELT 107 Fundamentals of Industrial Electronics	3
ELT 252 Motors and Controls	3
ELT 258 Programmable Logic Controllers	3
IMA 150 Industrial Problem Solving	2
MAT 107 Career Math	3
WTG 110 Power Distribution & Control Systems	3

*Open to any student. Must pass EIC 101 with a 90%.

NURSE AIDE CERTIFICATE OF ACHIEVEMENT (NACT)

This short program prepares students to work as a Certified Nurse Aide in a hospital, nursing home, or other health related agency. After successful completion the student is eligible to take the Colorado Board of Nursing examination to become certified.

Required	Course Credits
NUA 101 Nurse Aide Health Care Skills	4
NUA 102 Certification Exam Prep	0.5
NUA 170 Nurse Aide Clinical Experience	1

PRACTICAL NURSING (PN) CERTIFICATE (PN2)

(Exit Option)

Practical Nursing has earned a respected place on the health care team and have both independent and dependent functions in providing patient care. This program provides qualified individuals the theory and hands on skills to provide patient care to include patient assessment, implementing doctors' orders and providing patient education.

Practical nurses are trained to give basic bedside nursing care in a variety of settings including home care agencies, clinics and long-term care facilities under the supervision of a registered nurse or physician.

The practical nursing certificate can be awarded to a student who completes the first year of the two-year associate degree program and takes an additional course in the summer, NUR 169 Transition into Practical Nursing. This certificate in practical nursing is awarded with a grade of "C" or better in all required course work. After receiving the certificate of Practical Nursing the student is eligible to take the NCLEX-PN exam (state board exam) to become a Licensed Practical Nurse (LPN).

Required Pre-Admission Courses: 15 Credits

(Prerequisite Courses):

ENG 121 English Composition I	3
HPR 108 Dietary Nutrition <u>OR</u>	
HWE 100 Human Nutrition	3
BIO 201 Human Anatomy & Physiology I	4
BIO 202 Human Anatomy & Physiology II	4
PSY 235 Human Growth & Development	3

Required General Education Courses 14 Credits

BIO 204 Microbiology	4
BIO 216 Pathophysiology	4
MAT 103 Mat for Clinical Calculations <u>OR</u> Higher Level	
Math courses	3
3 credit elective in Social Science	3

Program Requirements 25 Credits

NUR 106 Medical Surgical Nursing Concepts	7
NUR 109 Fundamentals of Nursing	6
NUR 112 Basic Concepts of Pharmacology	2
NUR 150 Maternal Child Nursing	6
NUR 169 Transition into Practical Nursing	4

Total Required Courses 54 Credits

ASSOCIATE DEGREE NURSING ASSOCIATE OF APPLIED SCIENCE DEGREE (NRI)

Associate Degree Nursing (ADN) Program is a four-semester program after completing a set of prerequisite courses. Students graduate with an Associate of Applied Science in Nursing and are then eligible to take the NCLEX-RN (nursing state board exam) to become a Registered Nurse (RN). RNs are in high demand and are the largest group of health care providers in the United States. RNs have both independent and dependent functions in providing patient care to include patient assessment, implementing doctors' orders and providing patient education.

RNs work in a variety of settings including hospitals, home care agencies, long-term care facilities, clinics, public health care agencies and schools.

The nursing program includes both instructional and clinical experience to provide safe and compassionate nursing care. The nursing faculty also strive to teach the values and professionalism nurses will need to have a rewarding career in nursing. Clinical experiences vary and may occur on weekends or nights and will include eight or twelve hour shifts in facilities from surrounding areas including Nebraska. Travel may be required up to a 200-mile radius of campus.

Applicants who desire to enter the ADN program must satisfy the following requirements for admission:

1. Applicants must meet general admission requirements.
2. Applicants must submit all material required under admission information of this catalog.
3. Applicants must demonstrate readiness for college-level course work in reading, math and English.
4. Completion of a preadmission nursing entrance exam available at the counseling office.
5. Completion of the following prerequisite courses which require a GPA of 2.5 or better. All courses need to be at least a "C".

Program Prerequisites 15 or 17 Credits

BIO 201 Anatomy & Physiology I with lab.....	4
BIO 202 Anatomy & Physiology II with lab.....	4
ENG 121 English Composition I.....	3
HPR 108 Dietary Nutrition <u>OR</u>	1
HWE 100 Human Nutrition.....	3
PSY 235 Human Growth & Development.....	3

All Biology (BIO) prerequisites must be completed within seven years of entry into Northeastern's nursing programs.

Once all prerequisites are completed, the student must apply to the ADN program. This is a separate application than general admission to the college. The student needs to apply to the college first and be assigned an 'S' number. Please contact the nursing department for the specific directions on how to apply to the nursing program.

Acceptance into the ADN program is a competitive process. Points are assigned based on the following: grade point average on prerequisites, prior degree, and certification as a nurse aide, successful completion of Jump Start to Nursing course, nursing preadmission test results, and proof of residency for one year from Northeastern's service area. Applicants are selected on total points earned. Once accepted into the program the following must be completed.

- Satisfactorily pass a criminal background check (not to be completed earlier than 90 days of start of program).
- Health statement/proof of immunization for medical clearance.
- Professional CPR Certificate that must not expire until after graduation.
- Negative drug screen

It is highly recommended that you meet with a nursing advisor to ensure all requirements have been met.

General Education

Program Requirements 14 Credits

BIO 204 Microbiology.....	4
BIO 216 Pathophysiology.....	4
MAT 103 Math for Clinical Calculations <u>OR</u> Higher Level Math Course.....	3
Social Science Elective.....	3

All Biology (BIO) prefixes and/or science courses are valid for seven years from the time of the completion to the start of the Nursing Program.

Nursing Education

Program Requirements 42.5 Credits

1st Year

NUR 106 Medical Surgical Nursing Concepts.....	7
NUR 109 Fundamentals of Nursing.....	6
NUR 112 Basics of Pharmacology.....	2

NUR 150 Maternal Child Nursing.....	6
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*Optional NUR 169 Transition into Practical Nursing.....	4
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2nd Year

NUR 206 Advanced Concepts of Medical-Surgical Nursing I.....	6.5
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NUR 211 Psychiatric Mental Health Nursing.....	4
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NUR 212 Pharmacology II.....	2
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NUR 216 Advanced Concepts of Medical-Surgical Nursing II	5
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NUR 230 Transition to Professional Nursing.....	4
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Total Required Credits	71.5 Credits
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LPN to Associate Advanced Placement Option

(LPN to ADN)

LPNs who desire to further their education can enter the second year of the ADN program after completing NUR 189 Transition from LPN to ADN (3 credits) course. After successful completion of the 2nd year, these students are eligible to take the NCLEX-RN (nursing state board exam) to become a Registered Nurse (RN).

A student who wishes to enter the second year of the associate degree program must be a LPN in good standing and have all the prerequisites and general education requirements satisfactorily completed. Students who graduated from a practical nursing program three or more years ago have additional requirements for entry as part of the Colorado Articulation Agreement. **Contact the nursing department for more information: 970-521-6701.**

Required Pre-Admission Courses 29 Credits

(Pre-requisite courses):

ENG 121 English Composition I.....	3
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HPR 108 Dietary Nutrition <u>OR</u>	1
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HWE 100 Human Nutrition.....	3
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BIO 201 Human Anatomy & Physiology I.....	4
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BIO 202 Human Anatomy & Physiology II.....	4
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PSY 235 Human Growth & Development.....	3
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BIO 204 Microbiology.....	4
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BIO 216 Pathophysiology.....	4
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MAT 103 Math for Clinical Calculations <u>OR</u> Higher Level Math Course.....	3
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3 Credit Elective in Social Science.....	3
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Program Requirements	24.5 Credits
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NUR 189 Transition from LPN to AND.....	3
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NUR 206 Advanced Concepts of Med-Surg Nursing I.....	6.5
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NUR 211 Psychiatric Mental Health Nursing.....	4
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NUR 212 Pharmacology II.....	2
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NUR 216 Advanced Concepts of Med-Surg Nursing II.....	5
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NUR 230 Transition to Professional Nursing.....	4
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Transfer block credits from 1st Year	21 Credits
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Total Required Credits	74.5 Credits
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The ADN program is accredited by the Accreditation Commission for Education in Nursing (ACEN). Contact information: 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326, 404-975-5000.

WELDING TECHNOLOGY

ASSOCIATE OF APPLIED SCIENCE

DEGREE

CIP 480508 (WELZ)

Welding is a common process used in the manufacturing and construction industries as well as in repair work. Many welders are certified in one or more welding techniques such as stick welding, MIG welding, and TIG welding. Welders are frequently employed in the shipbuilding, automobile, and aerospace industries. Welders also join beams and girders and the like in commercial and residential construction. They may work on pipelines or help construct and maintain power plants and refineries.

Some welders prefer to start their own business or go on the road with a welding truck and work on pipelines and other large construction projects. Some welders operate welding machines instead of welding by hand. Welding machine operators are in great demand as they have knowledge of various welding techniques and how to operate industrial welding equipment.

Most Welding courses are 5 weeks long. Students can start at any of the 5 week start dates in the fall or spring semester while pursuing a welding certificate or degree. There is a pathway for fulltime and part time students to satisfy their career goals.

Concurrent enrollment of high school juniors and seniors is encouraged. Students can earn welding certificates while still in high school. Interested students should work with their counselor to plan ahead and include the courses in their ICAP.

General Education Requirements **15 Credits**

MAT 107 QR Higher.....	3
ENG 121 English Composition I <u>OR</u>	
ENG 131 Technical Writing.....	3
CIS 118 Intro to PC Applications.....	3
COM 115 Public Speaking <u>OR</u>	
COM 125 Interpersonal Communications.....	3
MAN 128 Human Relations.....	3

Program Requirement **41 Credits**

WEL 100 Safety for Welders.....	1
WEL 106 Blueprint Read-Welders/Fitters.....	4
WEL 113 Oxyfuel and Plasma Cutting.....	2
WEL 114 Oxyacetylene Welding.....	2
WEL 116 SMAW Flat & Horizontal.....	2
WEL 117 SMAW Vertical.....	2
WEL 118 SMAW Overhead.....	2
WEL 126 GMAW Steel I.....	2
WEL 150 AWS Certification.....	1
WEL 164 GTAW Steel I.....	2
WEL 165 GTAW Steel II.....	2
WEL 216 SMAW Pipe I.....	2
WEL 217 SMAW Pipe II.....	2
WEL 226 GMAW Steel II.....	2
WEL 252 FCAW Flat & Vertical.....	2
WEL 251 Design, Layout & Fabrication.....	4
WEL 260 GTAW Stainless & Aluminum I.....	2
WEL 263 Applied Metal Properties.....	4
HWE 103 CPR First Aid.....	1

Technical Electives **5 Credits**

Any course with prefix: ABM, ACC, AGB, AGE, AGP, AGY, AME, ART, ASC, ASE, BUS, CAD, DPM, EGG, EIC, ELT, IMA, MAN, MAR, MGD, MIL, PHY, SPA, WEL, & WTG.

Total Credits Required **61 Credits**

WELDING FABRICATOR CERTIFICATE (WEFI) (29 credits)

*Can be completed in 1 year or 2 semesters

General Education Requirements **6 credits**

MAT 107 Career Math.....	3
ENG 131 Technical Writing.....	3

Core Welding Classes **15 credits**

WEL 100 Safety for Welders.....	1
WEL 106 Blueprint Read-Welders/Fitters.....	4
WEL 113 Oxyfuel and Plasma Cutting.....	2
WEL 114 Oxyacetylene Welding.....	2
WEL 116 SMAW Flat & Horizontal.....	2
WEL 126 GMAW Steel I.....	2
WEL 164 GTAW Steel I.....	2

Choose one of the following options:

GMAW & FCAW Option (GMAW & WFCA) **8 Credits**

WEL 226 GMAW (MIG) – STEEL II.....	2
WEL 227 GMAW STAINLESS & ALUMINUM.....	2
WEL 252 FCAW FLAT & VERTICAL.....	2
WEL 253 FCAW HORIZONTAL & OVERHEAD.....	2

SMAW & PIPE Option (WSMW) **8 credits**

WEL 117 SMAW VERTICAL.....	2
WEL 118 SMAW OVERHEAD.....	2
WEL 216 SMAW PIPE I.....	2
WEL 217 SMAW PIPE II.....	2

GTAW Option (WTET) **8 Credits**

WEL 165 GTAW (TIG) – STEEL II.....	2
WEL 226 GMAW (MIG) – STEEL II.....	2
WEL 260 GTAW STAINLESS & ALUMINUM.....	2
WEL 261 GTAW STAINLESS & ALUMINUM II.....	2

Fabrication & Metallurgy Option (WFCA) **8 credits**

WEL 251 DESIGN, LAYOUT & FABRICATION.....	4
WEL 263 APPLIED METAL PROPERTIES.....	4

Total Credits **29 credits**

WELDING TECHNOLOGY CERTIFICATES

Oxy-fuel Certificate (WOWC) **9 credits**

WEL 100 Safety for Welders.....	1
WEL 106 Blueprint Read-Welders/Fitters.....	4
WEL 113 Oxy-fuel and Plasma Cutting.....	2
WEL 114 Oxyacetylene Welding.....	2

SMAW Certificate (WSMW) **11credits**

WEL 100 Safety for Welders.....	1
WEL 106 Blueprint Read-Welders/Fitters.....	4
WEL 116 SMAW Flat & Horizontal.....	2
WEL 117 SMAW Vertical.....	2
WEL 118 SMAW Overhead.....	2

GMAW Certificate (GMAW) 9 credits

WEL 100 Safety for Welders.....	1
WEL 106 Blueprint Read-Welders/Fitters.....	4
WEL 126 GMAW Steel I.....	2
WEL 226 GMAW Steel II.....	2

FCAW Certificate (WFCA) 7 credits

WEL 100 Safety for Welders.....	1
WEL 106 Blueprint Read-Welders/Fitters.....	4
WEL 252 FCAW Flat & Vertical.....	2

GTAW Certificate (WTET) 11 credits

WEL 100 Safety for Welders.....	1
WEL 106 Blueprint Read-Welders/Fitters.....	4
WEL 164 GTAW Steel I.....	2
WEL 165 GTAW Steel II.....	2
WEL 260 GTAW Stainless & Aluminum.....	2

WIND ENERGY TECHNICIAN PROGRAM

ASSOCIATE OF APPLIED SCIENCE DEGREE

CIP 150499 (WETA)

The renewable energy field is a fast growing and sustainable industry. Eastern Colorado is host to the fastest growing renewable power generation technology – wind turbines. The Wind Energy Technician program is designed to prepare students for entry level positions in the power generation and related industries.

Students will complete their OSHA 10 Hour, Climbing and Rescue, Rigging/Signal Person, and CPR certifications in their first year in the program. Students will become proficient with electrical, hydraulic, and mechanical systems.

Students will have the opportunity to build, troubleshoot, and repair combined electrical/ mechanical/hydraulic systems that are found in wind turbines, but these same systems are also found in most industrial facilities that have automated equipment such as advanced manufacturing, building controls, and food processing. There is a strong emphasis on safety throughout the program. The student will learn how to identify hazards in the work environment and take steps to eliminate or reduce the risk that exists. Wind Technicians typically work with heavy motors and gear drives in confined spaces, electrical systems up to 690 VAC, and automated electrical control systems in the heat of the summer or cold of the winter while working at heights approaching 300 feet. Most technicians are required to work with limited supervision so a strong work ethic and technical competence are highly sought qualities of entry-level employees in the wind industry.

Essential Functions:

- Must be able to work outdoors in inclement weather, climb ladders without assistance, and work at heights greater than 80 meters (250 feet).
- While performing the duties of this job the employee is regularly required to stand, use hands, reach with hands and arms, and hear.
- The employee is frequently required to stoop, kneel, crouch, or crawl. The employee is occasionally required to walk, sit, talk, smell, and lift and/or move up to 50 to 100 pounds.
- Specific vision abilities required by this job include close vision, distance vision, depth perception, and the ability to adjust focus. The employee must be able to distinguish colors.

- Employee must meet specific weight requirements dictated by required safety equipment and weigh less than 260 to 310 pounds when fully equipped with tools and safety gear.
- Employees must possess a valid driver's license, a clean driving record, and proof of insurance coverage.
- Employees must be able to follow written and spoken work instructions and procedures in English.

Graduates of the Wind Energy Technician program are prepared for employment with wind farm developers, owners, wind turbine manufacturers, warranty service companies, and other specialty support companies. Graduates from the program have also found employment in industries that range from automated bakeries to CO2 manufacturing with jobs that range from Quality Control Technician to Industrial Electrician.

The graduates from the Wind Energy Technology program have a diverse set of skills that cross over to many different industries and are able to adapt to the technological advances in their careers.

General Education Requirements 15 Credits

CIS 118 Intro to PC Applications.....	3
COM 115 Public Speaking OR	
COM 125 Interpersonal Communications.....	3
ENG 121 English Composition I OR	
ENG 115 Technical Writing.....	3
MAN 128 Human Relations.....	3
MAT 107.....	3

Program Requirements 49 Credits

EIC 101 Job Training and Safety.....	3
EIC 220 Industrial Electrical Control.....	4
ELT 106 Fundamentals of AC/DC.....	4
ELT 107 Fundamentals of Industrial Electronics....	3
ELT 252 Motors and Controls.....	3
ELT 258 Programmable Logic Controllers.....	3
HWE 103 First Aid & CPR.....	1
IMA 100 Intro to Industrial Maintenance.....	3
IMA 120 Industrial Rotating Equipment	3
IMA 150 Industrial Problem Solving.....	2
IMA 160 Basic Fluid Power.....	3
MIL 101 Lifting Devices.....	1
PED 101 Conditioning Lab.....	1
WTG 100 Intro to Wind Industry.....	3
WTG 110 Power Distribution & Control Systems..	3
WTG 220 WTG Troubleshooting and Repair.....	4
WTG 230 Wind Turbine Systems.....	3
WTG 289 Wind Tech Capstone.....	2

Suggested Electives

ELT 259 Adv. Programmable Logic Control.....	3
BUS 115 Intro to Business.....	3
MAT 135 Intro to Statistics.....	3
WEL 140 Welding Practices and Procedures.....	1.5
Any Foreign Language.....	3

Total Credits Required 64 Credits

WIND TECHNICIAN CORE CERTIFICATE (WET9)

This certificate is designed to allow a student to take these common courses at any of the community colleges in the state of Colorado and transfer into the Wind Energy Technician program as a sophomore student. The student would be on track to graduate in one year from Northeastern.

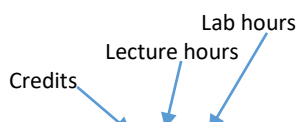
Program Requirements **31 Credits**

MAT 107 Career Math.....	3
ENG 121 English Composition I <u>OR</u>	
ENG 115 Technical English & Communication.....	3
CIS 118 Intro to PC Applications.....	3
COM 115 Public Speaking <u>OR</u>	
COM 125 Interpersonal Communications.....	3
MAN 128 Human Relations.....	3
EIC 101 Job Training and Safety.....	3
ELT 106 Fundamentals of AC/DC.....	4
ELT 107 Fundamentals of Industrial Electronics.....	3
ELT 252 Motors and Controls.....	3
WTG 100 Intro to Wind Industry.....	3

*Open to any student

**Must pass EIC 101 with a 90%.

COURSE DESCRIPTIONS



EXAMPLE:

BIO 111 GENERAL COLLEGE BIOLOGY I W/LAB 5 CR (4-2)

Examines the fundamental molecular, cellular, and genetic principles characterizing plants and animals. Includes cell structure and function, the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. This course includes laboratory experience. (Contact hours – 90) State Guaranteed Transfer Course.

ACADEMIC ACHIEVEMENT

AAA 72 JUMP START TO NURSING 1 CR (1-0)

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, as well as career exploration in the area of nursing and what you need to know to prepare yourself for a nursing program. (Contact hours – 15)

AAA 75 QUANTITATIVE LITERACY LAB 1 CR (1-0)

This course enhances skill development of MAT 50 objectives including problem solving skills, study skills, and test taking strategies. *Prerequisite: This course has math placement requirements which can be found on page 139. Paired with MAT 50.* (Contact hours – 16)

AAA 76 ALGEBRAIC LITERACY LAB1 CR (0-0-1)

This course enhances skill development of MAT 55 objectives including problem solving skills, study skills, and test taking strategies. *Prerequisite: This course has math placement requirements (see page 139). Paired with MAT 55.* (Contact hours – 16)

AAA 77 SKILLED TRADES/INDUSTRIAL MATH LAB 1 CR (1-01)

Exploration of current topics, issues, and activities related to one or more aspects of the named discipline. *Prerequisite: This course has math placement requirements (see page 139). Paired with MAT 102.* (Contact hours – 16)

AAA 78 CAREER MATH AG LAB 2 CR (2-0)

Exploration of current topics, issues, and activities related to one or more aspects of the named discipline. *Prerequisite: This course has math placement requirements (see page 139). Paired with MAT 107.* (Contact hours – 30)

AAA 79 CAREER MATH WIND LAB 1 CR (1-0)

Exploration of current topics, issues, and activities related to one or more aspects of the named discipline. *Prerequisite: This course has math placement requirements (see page 139). Paired with MAT 107.* (Contact hours – 16)

AAA 175 SPECIAL TOPICS 1-12 CR (1 to 12-0)

Exploration of current topics, issues and activities related to one or more aspects of the named discipline.

Additional courses are available through Colorado Community College Online (CCC Online).

AGRICULTURE BUSINESS MANAGEMENT

ABM 103 RECORDS & BUS PLANNING I 3 CR (5-7.5-41.7)

Examines the options available to set up a computerized record keeping system for an agricultural business. Focus is on the selection of a computer software package for the agricultural business. Computer terminology associated with a computerized record keeping system and importance of business planning will be discussed. (Contact hours – 54.2)

ABM 104 RECORDS & BUSINESS PLANNING II 3 CR (5-7.5-41.7)

Identifies the proper setup and implementation of accounting software for an agricultural business. A chart of accounts and beginning balance sheet will be created for a computerized record keeping system. Data entry methods for the accounting software and identification of business plan components specific to student needs will be discussed. (Contact hours - 54.2)

ABM 105 RECORDS & BUSINESS PLANNING III 3 CR (5-7.5-41.7)

Examines cash and accrual accounting concepts and basic financial statements created for an agricultural business plan. (Contact hours - 54.2)

ABM 106 RECORDS & BUSINESS PLANNING IV 3 CR (5-7.5-41.7)

Determines the proper processes to maintain an accurate record keeping system for an agricultural business. (Contact hours - 54.2)

ABM 107 RECORDS & BUSINESS PLANNING V 3 CR (5-7.5-41.7)

Examines how to create financial business reports from an accounting system for an agricultural business and utilize decision aid tools pertinent to the student's need. (Contact hours - 54.2)

ABM 108 RECORDS & BUSINESS PLANNING VI 3 CR (5-7.5-41.7)

Explains how to utilize a computerized accounting record keeping system to generate accurate financial records for an agricultural business. (Contact hours - 54.2)

ABM 113 FINANCIAL ANALYSIS I 3 CR (5-7.5-41.7)

Examines the purpose of enterprise analysis. Identification of accounting data used in enterprise analysis, enterprises features of an accounting system, and the need for additional enterprise software will be addressed. (Contact hours - 54.2)

ABM 114 FINANCIAL ANALYSIS II 3 CR (5-7.5-41.7)
Examines breakeven figures for business enterprises. This course will cover the calculation process for determining production figures for enterprises as well as refining an established accounting system to generate enterprise data accurately. (Contact hours - 54.2)

ABM 115 FINANCIAL ANALYSIS III 3 CR (5-7.5-41.7)
Develop a cash flow and enterprise budgets. Student will learn cash flow concepts and the relationship to enterprise budgets. Use of data from an accounting system as well as other decision aid tools will be used in the cash flow and enterprise budget development. (Contact hours - 54.2)

ABM 116 FINANCIAL ANALYSIS IV 3 CR (5-7.5-41.7)
Develop a cost and market value accrual balance sheet. This course focuses on the development of cost and marketing value balance sheets. Accrual features of an established accounting system will be analyzed in determining data that can be generated and utilized in the development of this financial statement. (Contact hours - 54.2)

ABM 117 FINANCIAL ANALYSIS V 3 CR (5-7.5-41.7)
Develop an accrual income statement. This course will focus on the development of an accrual income statement and examine this financial statement relevancy. Data from an established accounting system to use in the development will be identified. (Contact hours - 54.2)

ABM 118 FINANCIAL ANALYSIS VI 3 CR (5-7.5-41.7)
Determine financial health of a business with the use of industry financial ratios. This course focuses on industry ratio used in determining the financial health of a business. Types of ratios as well as their calculations will be discussed. Comparisons of financial statements from an accounting system will be utilized. (Contact hours - 54.2)

ABM 123 COMMODITY MARKETING I 3 CR (5-7.5-41.7)
Determine marketing strategies for agriculture commodities. Discussion will include identifying marketing information sources and defining marketing terminology. The students will also examine ways they can use current and forward marketing strategies in their operation. Course will also focus on enterprise identification and refinement of software enterprise features for production data. (Contact hours - 54.2)

ABM 124 COMMODITY MARKETING II 3CR (5-7.5-41.7)
Identify the function of basis in market price discovery, how to calculate margin account futures activity, and how to utilize option contracts in mitigating market risks. Investigation of software applications to further the calculations for production costs will be addressed. (Contact hours - 54.2)

ABM 125 COMMODITY MARKETING III 3CR (5-7.5-41.7)
Utilizes enterprise production data and its impact on cash flow to determine marketing strategies. (Contact hours - 54.2)

ABM 126 COMMODITY MARKETING IV 3CR (5-7.5-41.7)
Analyzes price behavior using both technical and fundamental analysis. A marketing plan will be developed using calculated production costs and marketing strategies. (Contact hours - 54.2)

ABM 127 COMMODITY MARKETING V 3CR (5-7.5-41.7)
Covers evaluations and revisions of a marketing plan using actual production costs, local marketing alternatives, futures and option contracts, and technical analysis. Utilization of the plan will be determined. (Contact hours - 54.2)

ABM 128 COMMODITY MARKETING VI 3CR (5-7.5-41.7)
Covers evaluation and refining of cost of production for all enterprises to select marketing strategies. Utilize these calculations in developing and implement a production database. (Contact hours - 54.2)

ABM 163 MARKETING PLAN DEVELOPMENT I 3 CR (5-7.5-41.7)
Covers the use of marketing research to analyze the initial steps in developing a marketing plan. The focus will be on product and service component of the market plan. Data trends for products and services from an accounting system will be utilized in the analysis process. (Contact hours - 54.2)

ABM 164 MARKETING PLAN DEVELOPMENT II 3 CR (5-7.5-41.7)
Covers development of a customer and competitive analysis for a market plan. Research on market potential and target areas will be included. (Contact hours - 54.2)

ABM 165 MARKETING PLAN DEVELOPMENT III 3 CR (5-7.5-41.7)
Develops a pricing strategy for a marketing plan. Development of a pricing strategy will include price/quality relationships, sales methods, and ways to add value to products/services. Data from an inventory system as well as sales and expenses for products/services will be addressed. (Contact hours - 54.2)

ABM 166 MARKETING PLAN DEVELOPMENT IV 3 CR (5-7.5-41.7)
Develops a promotional strategy for a marketing plan. Development will include examining the business image, use of technology, and media. Promotional costs will be addressed. (Contact hours 54.2)

ABM 167 MARKETING PLAN DEVELOPMENT V 3 CR (5-7.5-41.7)
Interprets data needed for all components in a marketing plan. Identification of data collected for sections of the marketing plan will be analyzed. The need for additional decision aid tools will be examined. A historical trend analysis for sales and expenses for use in the marketing plan will be developed. (Contact hours - 54.2)

ABM 168 MARKETING PLAN DEVELOPMENT VI 3 CR (5-7.5-41.7)
Designs a marketing plan for the business. Overall marketing plan will be written with focus on how the plan differentiates from others. Cash flow a purely competitive agriculture environment. (Contact hours - 54.2)

ABM 213 ADV BUS MGT I 3 CR (5-7.5-41.7)
Interprets in-depth financial analysis processes for the business. This will include advanced financial analysis terminology and financial statements. (Contact hours – 54.2)

ABM 214 ADVANCED BUSINESS MGM II 3 CR (5-7.5-41.7)
Analyzes existing financial trends and emphasis of pro forma activities for further analysis of the business. Utilization of accurate accrual records and historical data will provide the basis of the pro forma statement development as it current operates. (Contact hours - 54.2)

ABM 215 ADVANCED BUSINESS MGT III 3 CR (5-7.5-41.7)

Identifies and examines alternative enterprise(s) for the business. This will include measuring the business performance past and present and assessing business goals. (Contact hours – 54.2)

ABM 216 ADV BUSINESS MANAGEMENT IV 3 CR (5-7.5-41.7)

Evaluates and assesses revisions to the business plan. This will include a process for periodic review with a focus on strengthening of management skills. (Contact hours – 54.2)

ABM 217 ADV BUSINESS MANAGEMENT V 3 CR (5-7.5-41.7)

Identifies critical areas in the business and sources of business risk. Various methods of researching resource materials to keep business plan current will be addressed as well as identifying alternatives to minimize future risks. (Contact hours – 54.2)

ABM 218 ADV BUSINESS MANAGEMENT VI 3 CR (5-7.5-41.7)

Changes business plan to include a risk management component which addresses the critical issues identified. (Contact – 54.2)

ABM 233 PROFIT MAXIMIZATION I 3 CR (5-7.5-41.7)

Lists the major business organizational structures available to agribusiness operations and compare the advantages and disadvantages of each. Document the risk management and financial responsibilities of each. (Contact hours – 54.2)

ABM 234 PROFIT MAXIMIZATION II 3 CR (5-7.5-41.7)

Develops an understanding of basis agricultural business taxes and their preparation. Special emphasis will be placed on alternative rules for depreciating farm property. The student will also document the income tax implications of alternative business organizational structure. (Contact hours – 54.2)

ABM 235 PROFIT MAXIMIZATION III 3 CR (5-7.5-41.7)

Compares the relationship between input levels and the corresponding output. Demonstrates how to calculate the production response from alternative levels of input allocation within an enterprise and among alternative enterprises. (Contact hours – 54.2)

ABM 236 PROFIT MAXIMIZATION IV 3 CR (5-7.5-41.7)

Defines basic economic concepts that enhance the financial success of an agriculture operation. (Contact hours - 54.2)

ABM 237 PROFIT MAXIMIZATION V 3 CR (5-7.5-41.7)

Analyzes production costs and revenue from an economic standpoint. Identifies the production level that allows profits to be maximized. (Contact hours - 54.2)

ABM 238 PROFIT MAXIMIZATION VI 3 CR (5-7.5-41.7)

Examines the concepts that determines how market prices are established in a purely competitive agriculture environment. (Contact hours – 54.2)

ABM 275 AG/BUS MGT SPECIAL TOPICS 0.5-6 CR ACC 178

This course provides the student with continued in-depth analysis of their business. It allows for the student to keep up with rapidly changing technology available to the industry. *Prerequisite: Instructor approval.*

ACCOUNTING

ACC 101 FUNDAMENTALS OF ACCOUNTING 3 CR (3-0)

Presents the basic elements and concepts of accounting with emphasis on the procedures used for maintaining journals, ledgers, and other related records, and for the completion of end-of-period reports for small service and merchandising businesses. (Contact hours–45)

ACC 115 PAYROLL ACCOUNTING 3 CR (3-0)

Covers 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, including computerized payroll procedures. Prerequisite: ACC 101 or ACC 121 (“C” or better). (Contact hours - 45)

ACC 121 ACCOUNTING PRINCIPLES I 4 CR (4-0)

Introduces accounting principles for understanding of the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting. (Contact hours - 60)

ACC 122 ACCOUNTING PRINCIPLES II 4 CR (4-0)

This course continues the application of accounting principles to business organizations. Prerequisite: ACC 121 or equivalent (“C” or better). (Contact hours - 60)

ACC 132 TAX HELP COLORADO 2 CR (2-0)

Examines the preparation of individual, federal, and state income tax returns within the guidelines and limitations set forth by the Tax Help Colorado program and IRS guidelines. Emphasis is placed on form preparation with the use of tax software.-(Contact hours – 30)

ACC 133 TAX HELP COLORADO PRACTICUM 1 CR (0-1)

Utilizes income tax knowledge and training in the context of a community service setting. Volunteers prepare individual federal, and state income tax within the parameters of the Tax Help Colorado program and Internal Revenue Service (IRS) guidelines. Prerequisite: ACC 132 (“C” or better). (Contact hours – 25)

ACC 175 SPECIAL TOPICS 0-6 CR (0 to 6-0)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours – 0 to 90)

ACC 275 SPECIAL TOPICS 1-6 CR (1 to 6-0)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours–15 to 90)

ACC 235 COMPUTERIZED ACCOUNTING FOR SMALL BUSINESSES 3 CR (3-0)

Introduces an electronic accounting application for use in a small business. This course will focus on installing and launching the application, converting a manual accounting system to an electronic system recording daily transactions, and summarizing records in reports for a complete financial picture. (Contact hours – 45)

AGRIBUSINESS

AGB 102 FOUNDATIONS OF AGRIBUSINESS 3 CR (3-0)

Focuses on the foundational aspects of the primary agriculture business areas including economics, management, marketing, sales, and finance in an applied manner. Current events in agriculture are discussed with emphasis on application to Agribusiness. (Contact hours – 45)

AGB 120 AGRICULTURAL SALESMANSHIP 3 CR (3-0)

Principles and techniques of agricultural sales as applied to goods and services being sold to individual producers or agricultural businesses. Emphasis will be placed on building business relationships and product training. (Contact hours – 45)

AGB 180 AGRI-BUSINESS INTERNSHIP I 5-8 CR

As an employee in the agribusiness industry, the student will receive practical training on the job. The student will gain experience in various phases of the business through performing the functions and duties assigned by their employer. (Contact hours–200-320 or 40 hours = 1 credit)

AGB 218 COMPUTERIZED FARM RECORDS 3 CR (3-0)

Provides hands-on experience with a detailed computerized accounting system. The activities will lead students through entering transactions that develop the financial statements. Time will be provided for exploration with different accounting software. (Contact hours – 53)

AGB 228 AGRIBUSINESS MANAGEMENT 3 CR (2-1.5)

Provides the student with basic management principles and practical experience in applying principles of economics, business, marketing, and finance to the management of an Agribusiness operation. (Contact hours – 53)

AGB 275 SPECIAL TOPICS 1-6 CR (1 to 6-0)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

AGB 280 AGRIBUSINESS INTERNSHIP II .25-12 CR

Upon successful completion of a first Agribusiness internship to gain additional experience in an Agribusiness field. (Contact hours–10 - 480 or 40 hours = 1 credit)

AGB 285 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

AGB 289 AGRIBUSINESS CAPSTONE 1 CR (1-0)

Covers information necessary for employment and for developing job search skills. Students will receive instruction in writing resumes and cover letters, filling out job applications, and developing interviewing skills. Prerequisite: Sophomore Agribusiness student. (Contact hours – 15)

AGRICULTURAL ECONOMICS

AGE 102 AGRICULTURE ECONOMICS 3 CR (3-0)

Focuses on economic principles as applied to agriculture through price discovery with producer supply and consumer demand, governmental policies, rural development and resource management. (Contact hours – 45)
State Guarantee Transfer Course.

AGE 205 FARM AND RANCH MANAGEMENT 3 CR (2-2)

Students will gain practical experience in applying principles of economics, marketing, and finance to the management of an agricultural operation. Students will create their own sample farm or ranch and emphasis will be placed on utilizing computer technology for budgeting and financial planning. *Prerequisite: CIS 118 (Ag emphasis preferred), ("C" or better) or instructor approval.* (Contact hours – 60)

AGE 208 AGRICULTURAL FINANCE 3 CR (3-0)

An introductory course in principles of finance and their application to agriculture and agri-business, including the time value of money, net present value analysis, interest, credit, lending institutions, financial statements, and financial ratios. *Prerequisite: AGE 102 ("C" or better).* (Contact hours – 45)

AGE 210 AGRICULTURAL MARKETING 3 CR (3-0)

An applied study of the agricultural marketing system and methods of marketing crops and livestock. Emphasis will be placed on hedging with futures and options. (Contact hours – 45)

AGE 285 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

PRODUCTION AGRICULTURE

AGP 100 PRACTICAL CROP PRODUCTION 4 CR (3-1.5)

Cultural practices and production management of selected field crops indigenous to the Great Plains region will be covered. Laboratories in basic crop principles, crop and weed seed and plant identification, crop system improvement and grain quality and grades will be covered. (Contact hours– 68)

AGP 110 INTEGRATED PEST MANAGEMENT 3 CR (1-2)

Identification and control of economically important weeds, insects and diseases through systems approach management concepts including cultivation, chemical and biological control mechanisms. (Contact hours - 53)

AGP 145 BEEF CATTLE CALVING MGT 2 CR (1–1.5)

Offered in cooperation with Colorado State University and will cover management of the cow and calf at calving. Topics to be covered include the process of parturition, dystocia, identifying approaching parturition, assisting with dystocia, and care of the newborn calf. Emphasis is on practical “hands-on” experience. Students will be responsible for transportation to (AGB 199), the Eastern Colorado Resource Center (E.C.R.C.) south of Sterling. Students student may enroll in this second internship will assist with night and weekend calving at the E.C.R.C. (Contact hours – 38)

AGP 146 ARTIFICIAL INSEMINATION MGT 2 CR (2-2.0)

Provides a study of applied fundamentals of anatomy and reproduction as they pertain to artificial insemination. Handling frozen semen, heat detection and nutritional management for A.I. are emphasized. Individualized training is given in developing and perfecting insemination techniques in live cattle. (Contact hours – 38)

AGP 147 PRACTICAL CATTLE REPRODUCTION 2 CR (1–1.5)

Studies the fundamentals of cattle reproduction. Principles covered include: nutrition, breeding, system management, physiology of the reproductive tract, hormone function, fertilization, stages of pregnancy, and overall reproductive management of the cow herd. Emphasizes economic decision making and practical experience.

Covers practical applications in reproductive management that may include: reproductive tract scoring, pelvic measuring, body condition scoring, artificial insemination and palpating cows. (Contact hours – 38)

AGP 148 CATTLE REPRODUCTION LAB 1 CR (0-2)

Development of skills necessary for reproductive management of cattle in Beef/Dairy operations. Covers the practical application of reproductive management techniques and practices utilized in the cattle industry. (Contact hours – 22.5)

AGP 160 RANCH HORSEMANSHIP SKILLS 2 CR (0-2)

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. (Contact hours – 45)

AGP 180 PRODUCTION AG INTERNSHIP 0.25 - 8 CR

Student will be employed in a production agriculture setting. This work experience must cover a minimum of 320 hours with the student being involved in all facets of the operation. Guidance and supervision will be the responsibility of the supervising employer and Coordinator of Production Agriculture. Emphasis will be placed on records, managerial decisions, and production agriculture skills. (Contact hours –10 - 320, 40 hours = 1 credit)

AGP 204 SOIL FERTILITY AND FERTILIZERS 4 CR (3–1.5)

Soil fertility and plant nutrition in crop production, soil–plant relations, diagnostic techniques, and methods of evaluating soil fertility are emphasized. Also included are composition, manufacture, marketing, and use of fertilizer materials and their reactions with soils and plants. *Co-requisite: AGY 240 (“C” or better) OR instructor approval.* (Contact hours – 68)

AGP 208 COMMERCIAL PESTICIDE LICENSE**TRAINING 3 CR (3–0)**

Study of the requirements for the qualified supervisor license as outlined in the training manuals published by the Colorado Department of Agriculture. Students may elect to take the certified operator tests if they do not meet the experience qualifications for the qualified supervisors license. Areas studied will be for the general, weeds, agricultural insect, plant disease, and industrial right-of-way tests administered by the Colorado Department of Agriculture. Students may elect to take any of the other tests available. (Contact hours – 45)

AGP 215 ANIMAL HEALTH 3 CR (2–1.5)

Introduced to methods of prevention, recognition, and treatment of common livestock diseases. Emphasis is placed on understanding the conditions, which are normal, what steps the layman should attempt independently and when to seek professional help. (Contact hours – 53)

AGP 241 BEEF CATTLE MANAGEMENT I 3 CR (2–1.5)

Provides training in management pertaining to the economics of a commercial cow–calf operation. Topics included are reproduction, feeding, herd health, selection, record keeping, financial management, and marketing. (Contact hours – 53)

AGP 247 PRODUCTION CATTLE FEEDING 3 CR (2–1.5)

Continuation of ASC 212 with emphasis on production feeding in large and medium size operations. The mechanics and management of feeding operations in and near the Sterling area are observed and studied. (Contact hours – 53)

AGP 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue exploration of special topics of interest.

AGP 280 PRODUCTION AG INTERNSHIP .25-12 CR

Student will be employed in a production agriculture setting. Guidance and supervision will be the responsibility of the supervising employer and Coordinator or Production Agriculture. Emphasis will be placed on records, managerial decisions and production agriculture skills. (Contact hours – 10 – 480, 4- hours = 1 credit)

AGP 285 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

AGP 289 PRODUCTION AG CAPSTONE 1 CR (1-0)

Issues concerning transition into the family agriculture operation will be discussed. As a part of the course a seminar will be open to both students and parents (or future business partners) concerning issues of transition of the agricultural operation to the next generation. Topics concerning completion of the AAS degree will also be addressed.

AGRICULTURE

AGR 170 RODEO I

2 CR

Allows the student-athletes an opportunity to participate in a competitive varsity sports program as dictated by the National Intercollegiate Rodeo Association (NIRA). (Contact hours–100-140)

AGR 171 RODEO II

2 CR

Allows the student-athletes an opportunity to participate in a competitive varsity sports program as dictated by the National Intercollegiate Rodeo Association (NIRA). (Contact hours–100-140)

AGR 172 RODEO III

2 CR

Allows the student-athletes an opportunity to participate in a competitive varsity sports program as dictated by the National Intercollegiate Rodeo Association (NIRA). (Contact hours–100-140)

AGR 173 RODEO IV

2 CR

Allows the student-athletes an opportunity to participate in a competitive varsity sports program as dictated by the National Intercollegiate Rodeo Association (NIRA). (Contact hours–100-140)

AGR 174 RODEO V

2 CR

Allows the student-athletes an opportunity to participate in a competitive varsity sports program as dictated by the National Intercollegiate Rodeo Association (NIRA). (Contact hours–100-140)

AGR 175 SPECIAL TOPICS

1-6 CR

Designed to instruct the student in various topics in agriculture. The student will experience different aspects of the agricultural industry. (Contact hours–15–90)

AGR 235 PRECISION AG OPERATIONS

3 CR (2–2)

Introduces various methods in precision navigation of agricultural equipment utilizing Global Positioning Systems (GPS) and other support networks. Focus is placed on working with control consoles, equipment, GIS data integration, field planning, zone management, and variable rate applications. Attention is also given to differential correction systems, error sources, environmental variables, and precision accuracy. (Contact hours – 60)

AGR 236 PRECISION FARMING HARDWARE

3 CR (2-2)

Focuses on the installation, operation and troubleshooting of precision farming hardware components. Proper installation, operation and troubleshooting of displays, GPS equipment, variable rate controllers and other components used within precision agriculture applications are covered.

AGR 260 WORLD INTERDEPENDENCE – POPULATION & FOOD

3 CR (3–0)

Covers concepts and issues related to world population, food, and agriculture. (Contact hours – 45) State Guaranteed Transfer Course.

AGR 270 RODEO VI

2 CR

Allows the student-athletes an opportunity to participate in a competitive varsity sports program as dictated by the National Intercollegiate Rodeo Association (NIRA). (Contact hours–100-140)

AGR 271 RODEO VII

2 CR

Allows the student-athletes an opportunity to participate in a competitive varsity sports program as dictated by the National Intercollegiate Rodeo Association (NIRA). (Contact hours–100-140)

AGR 272 RODEO VIII

2 CR

Allows the student-athletes an opportunity to participate in a competitive varsity sports program as dictated by the National Intercollegiate Rodeo Association (NIRA). (Contact hours–100-140)

AGR 275 SPECIAL TOPICS

1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours –15–90)

AGRONOMY

AGY 100 GENERAL CROP PRODUCTION

4 CR (3-2)

Production and adaptation of cultivated crops, with emphasis on crops grown in the western region of the United States. Principles affecting growth, development, production, and use will be covered. (Contact hours – 75)

AGY 110 INDUSTRIAL HEMP PRODUCTION

3 CR (3-0)

This course covers the basic principles of growing industrial hemp in an agronomic system. (Contact hours – 45)

AGY 240 INTRODUCTORY SOIL SCIENCE

4 CR (3–2)

Formation, physical properties, chemical properties, and management of soils emphasizing soil conditions that affect plant growth. Prerequisites: Any CHE Course or instructor approval. (Contact hours – 75) State Guaranteed Transfer Course.

AGY 275 SPECIAL TOPICS

1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours–15–90)

AGY 285 INDEPENDENT STUDY

1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

AGRICULTURE MECHANICS

AME 105 BASIC AGRICULTURAL MECHANIC

SKILLS

2 CR (1–2)

Includes safety, proper tool use, tool reconditioning, A.C. electricity, D.C. electricity, domestic water supply, and farm sanitation systems. (Contact hours – 45)

AME 107 GENERAL POWER MECHANICS

2 CR (1–2)

Designed to teach the theory of operation and the maintenance of small engines and related power equipment used on the farm. (Contact hours – 45)

AME 118 FARM CARPENTRY

3 CR (1–4)

Includes safety, hand and power tool use, farm building planning and site location, concrete, farm building design and construction, and materials of construction. (Contact hours – 75)

AME 125 AGRICULTURAL MACHINERY 3 CR (2–2)

The safe operation, construction, purpose, maintenance, and adjustment of farm machinery are emphasized in this course. (Contact hours – 60)

AME 151 FUNDAMENTALS OF WELDING 3 CR (1-4)

Designed to develop basic welding skills, principles, and practices in arc and oxy-acetylene welding. (Contact hours – 75)

AME 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

AME 285 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

ANTHROPOLOGY

ANT 101 CULTURAL ANTHROPOLOGY 3 CR (3–0)

Studies the human cultural patterns and learned behavior. Includes linguistics, social and political organization, religion, culture and personality, culture change, and applied anthropology. (Contact hours – 45) State Guaranteed Transfer Course.

ANT 102 CULTURAL ANTHROPOLOGY LAB 1 CR (0-2)

Studies the art and science of ethnographic research methods. This course analyzes classic ethnographies, conducts field research projects, writes model ethnographies and ethnologies, and addresses ethical debates and controversies. (Contact hours – 30) State Guaranteed Transfer Course.

ANT 103 ARCHAEOLOGY LAB 1 CR (0-2)

Studies analytical methods in archaeological research including those employed in the field and in the laboratory. This course utilizes practical exercises to illustrate theoretical principles of archaeology, including methods of archaeological survey, excavation, artifact analysis, collection strategies, mapping strategies, and field interpretation. (Contact hours – 30) State Guaranteed Transfer Course.

ANT 107 INTRODUCTION TO ARCHEOLOGY 3 CR (3-0)

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. (Contact hours – 45) State Guaranteed Transfer Course.

ANT 111 BIOLOGICAL ANTHROPOLOGY 4 CR (3–2)

Focuses on the study of the human species and related organisms and examines principles of genetics, evolution, anatomy, classification, and ecology, including a survey of human variation and adaptation, living primate biology and behavior, and primate and human fossil evolutionary history. (Contact hours – 75) State Guaranteed Transfer Course.

ANT 201 INTRO TO FORENSIC ANTHROPOLOGY 3 CR (3–0)

Studies the basic principles of forensic anthropology, an applied field within the discipline of physical anthropology. Includes the study of the human skeleton, practical application of physical anthropology and archaeology, and judicial procedure as they relate to the identification of human remains within a medico-legal context. (Contact hours – 45) State Guaranteed Transfer Course.

ANT 215 INDIANS OF NORTH AMERICA 3 CR (3-0)

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. (Contact hours – 45) State Guaranteed Transfer Course.

ANT 225 ANTHROPOLOGY OF RELIGION 3 CR (3-0)

Explores the culturally universal phenomenon of religion including cross-cultural varieties of beliefs in the supernatural and the religious rituals people employ to interpret and control their worlds. (Contact hours – 45)

ANT 250 MEDICAL ANTHROPOLOGY 3 CR (3-0)

Studies the basic principles of medical anthropology, an applied field within the discipline of cultural anthropology, including the cross-cultural study of practices and beliefs regarding illness, health, death, prevention, therapy, and the interaction of the medical systems between Western and other cultures. (Contact hours – 45) State Guaranteed Transfer Course.

ANT 275 SPECIAL TOPICS 1-6 CR

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.

Additional courses are available through Colorado Community College Online (CCC Online).

ART

ART 107 ART EDUCATION METHODS 3 CR (3–0)

Focuses on a multimedia approach to teaching art. Emphasizes strong creative presence, philosophy, and techniques in drawing, painting, printmaking, and other media. ART or EDU credit available, but credit is granted for only one option. (Contact hours – 45)

ART 110 ART APPRECIATION 3 CR (3–0)

Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. (Contact hours – 45) State Guaranteed Transfer Course.

ART 111 ART HISTORY ANCIENT TO MEDIEVAL 3 CR (3–0)

Provides the knowledge base to understand the visual arts, especially as related to Western Culture. Surveys the visual arts from the Ancient through Medieval Periods. (Contact hours – 45) State Guaranteed Transfer Course.

ART 112 ART HISTORY RENAISS. TO 1900 3 CR (3-0)

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. (Contact hours – 45)
State Guaranteed Transfer Course.

ART 115 STAINED GLASS I 3 CR (0-6)

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. (Contact hours – 90)

ART 116 STAINED GLASS II 3 CR (0-6)

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. (Contact hours – 90)

ART 121 DRAWING I 3 CR (0-6)

Investigates the various approaches and media that students need to develop drawing skills and visual perception. (Contact hours – 90)

ART 124 WATERCOLOR I 3 CR (0-6)

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. (Contact hours – 90)

ART 129 PRINTMAKING I 3 CR (0-6)

Introduces the basic techniques and skills of printmaking as a fine art media. Instruction includes an understanding of visual concepts as they relate to prints. May include introduction to relief, intaglio, lithography, and screen printing techniques. (Contact hours – 90)

ART 131 VISUAL CONCEPTS 2-D DESIGN 3 CR (0-6)

Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media. (Contact hours – 90)

ART 132 VISUAL CONCEPTS 3-D DESIGN 3 CR (0-6)

Focuses on learning to apply the elements and principles of design to three dimensional problems. (Contact hours – 90)

ART 138 FILM PHOTOGRAPHY I 3 CR (2-2)

Introduces black and white photography as a fine art medium and develops skills necessary for basic camera and lab operations. (Contact hours – 60)

ART 139 DIGITAL PHOTOGRAPHY I 3 CR (2-2)

Introduces the basic concepts of digital imaging as applied to photography. Using applicable technology and hands on experience, modern developments are presented leading to the present applications of digital imaging, which combine traditional photographic ideas with electronic media. Enables the student to learn how to operate image manipulation software using a variety of scanning equipment, software tools, and output devices by executing new assignments and applying these technologies to their photographic process. (Contact hours – 60)

ART 151 PAINTING I 3 CR (0-6)

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. (Contact hours–90)

ART 161 CERAMICS I 3 CR (0-6)

Introduces traditional and contemporary ceramic forms and processes including hand building and throwing on the potter's wheel. (Contact hours – 90)

ART 165 SCULPTURE I 3 CR (0-6)

Introduces the fundamentals of sculpture such as modeling, casting, carving, and the processes of assemblage. (Contact hours – 90)

ART 175 SPECIAL TOPICS 1-6 CR

Students in this class will be taught special, creative art form.

ART 185 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

ART 207 ART HISTORY 1900 TO PRESENT 3 CR (3-0)

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. (Contact hours – 45) State Guaranteed Transfer Course.

ART 221 DRAWING II 3 CR (0-6)

Explores expressive drawing techniques with an emphasis on formal composition, color media, and content or thematic development. (Contact hours – 90)

ART 222 DRAWING III 3 CR (0-6)

Offers a continued study of expressive drawing techniques and development of individual style with an emphasis on composition and technique variation. (Contact hours – 90)

ART 223 DRAWING IV 3 CR (0-6)

Explores advanced drawing problems with an emphasis on conceptual development and portfolio and/or exhibition quality presentation. (Contact hours – 90)

ART 231 ADV VISUAL CONCEPTS 2-D DESIGN 3 CR (0-6)

Provides continued study of the principles and elements of two-dimensional design with an emphasis on visual communication for further application in fine art, commercial art, and/or applied arts.

ART 232 ADV VISUAL CONCEPTS 3-D DESIGN 3 CR (0-6)

Provides continued study of the principles and elements of three-dimensional design with an emphasis on visual communication for further application in fine art, commercial art, and/or applied arts.

ART 251 PAINTING II 3 CR (0-6)

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. (Contact hours – 90)

ART 252 PAINTING III 3 CR (0-6)
Provides continued exploration of techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development. (Contact hours – 90)

ART 253 PAINTING IV 3 CR (0-6)
Explores advanced techniques, materials, and concepts used in opaque painting processes with emphasis on the development of themes and a cohesive body of work. (Contact hours – 90)

ART 261 CERAMICS II 3 CR (0-6)
Continuation of ART 161, this course emphasizes skill, technique, and form. (Contact hours – 90) Prerequisite: ART 161 ("C" or better) OR instructor approval.

ART 275 SPECIAL TOPICS 1-6 CR
Provides the student with a vehicle to pursue in-depth exploration of special topics of interest.

Additional courses are available through Colorado Community College Online (CCC Online).

ANIMAL SCIENCE

ASC 100 ANIMAL SCIENCES 3 CR (3-0)
Studies the basic fundamentals of livestock production pertaining to principles of breeding, genetics, nutrition, health, and physiology of beef, sheep, swine, dairy, and horses. Focuses on the Animal Science Industry in general and each species industry in regard to history, current situation, and future direction. *Prerequisite: Successful completion of REA 45 or 60 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Co-requisite: CCR 92.* (Contact hours – 45)

ASC 101 ANIMAL SCIENCES LAB 1 CR (0-2)
Focuses on practical and laboratory applications of the fundamentals of livestock production and animal science. (Contact hours - 30)

ASC 102 INTRODUCTION TO EQUINE SCIENCE 4 CR (3-2)
This course 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. (Contact hours - 75)

ASC 105 INTRO TO LARGE ANIMAL ANATOMY 1 CR (0-2)
Introduction to basic gross anatomy of livestock and large animals used in agriculture. (Contact hours - 30)

ASC 115 INTRO TO LIVESTOCK EVALUATION 1 CR (0-2)
Designed to explore principles and economic value of traits considered in meat animal selection. In addition, emphasis will be placed on terminology used in describing meat animal conformation. It will provide experience to the student in correctly evaluating meat animal classes and defending their evaluation with oral reasons using industry acceptable terminology. (Contact hours – 30)

ASC 143 ELEMENTARY WESTERN EQUITATION 2 CR (0-4)
Provides the student with an introduction to basic safe handling and riding of the Western horse. (Contact hours – 60)

ASC 215 LIVESTOCK JUDGING 2 CR (0-4)
Emphasizes comparative selection, grading, and judging of market and breeding classes of livestock based on knowledge of phenotype, performance, information, and/or carcass merit. (Contact hours – 60)

ASC 225 FEEDS & FEEDING 4 CR (3-2)
A study of the basic nutrients, common feeds, and feed additives fed to livestock, anatomy of digestive systems, and basic feeding practices for beef, sheep, swine, horses, and dairy. The lab portion of this class will be devoted to calculating and balancing rations to fulfill nutrient requirements for farm animals for growth, finishing, reproduction and lactation, and work. *Prerequisite: ASC 100 ("C" or better).* (Contact hours - 75)

ASC 230 FARM ANIMAL ANATOMY & PHYSIOLOGY 3 CR (3-0)
Introduces students to the basic concepts of farm animal anatomy and physiology with emphasis on concepts relating to nutrition, reproduction, Immunology, and growth of the basic farm species. Anatomy and Physiology is taught in the context of applying basic principles to production practices in the industry including reproductive management, livestock nutrition management, and animal health practices. *Prerequisites: BIO 111 and ASC 100 ("C" or better) OR instructor approval.* (Contact hours - 45)

ASC 243 INTERMEDIATE WESTERN EQUITATION 2 CR (0-4)
Provides the student basic to intermediate horsemanship and maneuvers, improved body position, and advanced control. *Prerequisites: ASC 143 ("C" or better) OR instructor approval.* (Contact hours – 60)

ASC 245 EQUINE EVALUATION 3 CR (3-0)
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. (Contact hours – 45)

ASC 250 LIVE ANIMAL & CARCASS EVALUATION 3 CR (3-0)
Explores meat animal carcass evaluation and the related yield and quality grading system. Selection of breeding stock based on performance data will also be emphasized. *Prerequisite: ASC 100 ("C" or better).* (Contact hours – 45)

ASC 275 SPECIAL TOPICS 1-6 CR
Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ASC 285 INDEPENDENT STUDY 1-6 CR
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

ASC 288 LIVESTOCK PRACTICUM 2 CR (1-2)
Provides experiential learning with beef cattle, dairy cattle, swine, and sheep. (Contact hours – 45)

AUTOMOTIVE SERVICE TECHNOLOGY

ASE 101 AUTO SHOP ORIENTATION 2 CR (0-3)

Covers safety instruction in the shop and on the automobile. Emphasis on the proper use and care of test equipment, precision measuring and machining equipment, gaskets, adhesives, tubing, wiring, jacks, presses, and cleaning equipment and techniques. (Contact hours –45)

ASE 103 Auto Maintenance I 2 CR (0-3)

Analyzes and addresses primary areas of concern for the average car owner. This course covers the basics of how various systems on the automobile operates, maintenance required for the vehicle, and financial concerns of owning the vehicle. (Contact hours –45)

ASE 110 AUTO BRAKE SERVICE I 2 CR (0-3)

Introduces the basic theory of automotive braking systems including operation, diagnosis, basic repair of disc and drum friction assemblies, and basic hydraulic braking systems. This course meets MLR/AST/MAST program accreditation requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours - 45)

ASE 111 AUTO BRAKE SERVICE II 2 CR (0-3)

Covers diagnostics, test procedures, and repair to automotive foundation braking system. This course also introduces the components, types of Antilock Braking Systems (ABS), and traction control systems of current vehicles. This course meets MLR/AST/MAST program accreditation requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours - 45)

ASE 120 BASIC AUTOMOTIVE ELECTRICITY 2 CR (0-3)

Introduces vehicle electricity, basic electrical theory, circuit designs, and wiring methods. This course focuses on multi-meter usage and wiring diagrams. This course meets MLR/AST/MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 45)

ASE 122 AUTO ELECTRICAL SAFETY SYSTEMS 1 CR (0–1.5)

Covers the operation of electrical systems including vehicles safety concerns of vehicle lighting systems, Supplemental Inflatable Restraints (SIR), windshield wipers, driver warning systems, and vehicle accessories. This course meets MLR/AST/MAST Program Requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 22.5)

ASE 123 STARTING & CHARGING SYS. 2 CR (0-3)

Covers the operation and theory of a vehicle battery, testing, service, and repair of starting and charging systems including voltage testing, draw testing. This course meets MLR/AST/MAST Program Requirements. *Prerequisites:* ASE 101 & ASE 120 ("C" or better). (Contact hours – 45)

ASE 130 GENERAL ENGINE DIAGNOSIS 2 CR (0-3)

Covers how to perform basic engine diagnosis to determine condition of engine including engine support systems. This course meets MLR/AST/MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 45)

ASE 134 AUTO. FUEL & EMISSIONS SYSTEMS I 2 CR (0-3)

Covers how to perform basic engine diagnosis to determine condition of engine including engine support systems. This course meets MLR/AST/MAST requirements. *Prerequisites:* ASE 101 ("C" or better). (Contact hours – 45)

ASE 140 STEERING & SUSPENSION I 2 CR (0-3)

Focuses on diagnosis and service of suspension and steering systems and components. This course meets MLR/AST/MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 45)

ASE 141 STEERING & SUSPENSION II 2 CR (0-3)

Covers design, diagnosis, inspection, service of suspension, and steering systems used on light trucks and automobiles including power steering and Supplemental Restraint System (SRS) service. This course meets AST/MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours - 45)

ASE 150 MANUAL DRIVE TRANS & AXLE MAINT 2 CR (0-3)

Covers the operating principles and repair procedures relating to axle-shafts, propeller shafts, and universal joints. This course meets MLR/AST/MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 45)

ASE 151 MANUAL TRANS/TRANSAXLES & CLUTCHES 2 CR (0-3)

Focuses on the diagnosis and repair of automotive manual transmissions, transaxles, clutches, and related components. This course meets AST/MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 45)

ASE 192 MANUAL TRANS/TRANSAXLES & CLUTCHES II 3 CR (0–4.5)

Focuses on the diagnosis and repair of automotive differentials, four-wheel drive units, and all-wheel drive units. This course meets MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 67.5)

ASE 160 AUTO ENGINE REPAIR 2 CR (0-3)

Focuses on the service of cylinder head, valve-train components, and cooling system components including engine removal, re-installation, and re-mounting systems. This course meets MLR/AST/MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 45)

ASE 191 ENGINE REPAIR & REBUILD 4 CR (0-6)

Focuses on the disassembly, diagnosis, and reassembly of the automotive engine including the diagnostic and repair procedures for the engine block and cylinder head assemblies. This course meets MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 90)

ASE 162 AUTO ENGINE SERVICE 2 CR (0-3)

Covers engine sealing requirements and repair procedures including engine fasteners, bolt torque, repair of fasteners, cooling system, and basic engine maintenance. This course meets AST/MAST requirements. *Prerequisite:* ASE 101 ("C" or better). (Contact hours – 45)

ASE 165 AUTOMOTIVE MACHINING 2 CR (0-3)

Focuses on the machining processes used to repair or build the automotive engine, using up-to-date machines and equipment to recondition connecting rods, engine blocks, cylinder heads, valves, flywheels, crankshafts, pistons, and also including brake drum and rotor service. *Prerequisite: ASE 101 ("C" or better).* (Contact hours – 45)

ASE 175 INTRO TO AUTO REPAIR & MAINT 2 CR (0-3)

Exploration of current topics, issues, and activities related to one or more aspects of the named discipline. (Contact hours – 45)

ASE 210 AUTO POWER/ABS BRAKE SYSTEMS 2 CR (0-3)

Provides a systematic approach to automotive electrical and electronic systems. This course applies electrical principles to semiconductors and microprocessors commonly found in automobiles and covers diagnostic procedures that have applications to present and future automotive electronics and electrical systems. *Prerequisite: ASE 110* (Contact hours - 45)

ASE 220 SPECIALIZED ELECTRONICS TRAINING 2 CR (0-3)

Provides a systematic approach to automotive electrical and electronic systems. This course applies electrical principles to semiconductors and microprocessors commonly found in automobiles and covers diagnostic procedures that have applications to present and future automotive electronics and electrical systems. *Prerequisites: ASE 101 & ASE 120 ("C" or better).* (Contact hours – 45)

ASE 291 AUTO/DIESEL BODY ELECTRICAL 3 CR (0-4.5)

Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories. This course meets AST/MAST requirements. *Prerequisites: ASE 101 & ASE 120 ("C" or better).* (Contact hours – 67.5)

ASE 292 AUTO COMPUTERS & IGNITION SYSTEMS 3 CR (0-4.5)

Focuses on the inspection and testing of typical computerized engine control and ignition systems. This course meets AST/MAST requirements. *Prerequisites: ASE 101 & ASE 120 ("C" or better).* (Contact hours – 67.5)

ASE 293 AUTO FUEL INJECTION & EMISSIONS II 3 CR (0-4.5)

Focuses on the diagnosis and repair of electronic fuel injection systems and modern exhaust systems. This course meets AST/MAST requirements. *Prerequisite: ASE 101 ("C" or better).* (Contact hours – 67.5)

ASE 235 DRIVEABILITY & DIAGNOSIS 2 CR (0-3)

Focuses on diagnostic techniques and the use of diagnostic scan tools, oscilloscopes, lab scopes, multi-meters, and gas analyzers. *Prerequisites: ASE 101 & ASE 120 ("C" or better).* (Contact hours – 45)

ASE 294 STEERING & SUSPENSION III 3 CR (0-4.5)

Covers operation of steering and power steering systems including different alignment types and procedures. *Prerequisites: ASE 101 & ASE 140 ("C" or better).* (Contact hours – 67.5)

ASE 250 AUTO TRANS/TRANSAXLE SERVICES 1 CR (0-1.5)

Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle. This course meets MLR/AST/MAST requirements. *Prerequisite: ASE 101 ("C" or better).* (Contact hours – 22.5)

ASE 251 AUTO TRANS/TRANSAXLE REPAIR 3 CR (0-4.5)

Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation including removal, installation, and replacement of transmission/transaxle and components. This course meets AST/MAST requirements. *Prerequisite: ASE 101 ("C" or better).* (Contact hours – 67.5)

ASE 252 ADVANCED AUTOMATIC TRANS. O/H 2 CR (0-3)

Covers the diagnosis, repair, and rebuild of automatic transmissions and transaxles including the hydraulic, electronic, and mechanical components. This course meets MAST requirements. *Prerequisite: ASE 101 ("C" or better).* (Contact hours – 45)

ASE 264 INTRO TO HVAC SYSTEMS 1 CR (0-1.5)

Covers basic operation of heating and air conditioning components. This course meets MLR/AST/MAST requirements. *Prerequisite: ASE 101 ("C" or better).* (Contact hours - 22.5)

ASE 295 HVAC SYSTEMS 3 CR (0-4.5)

Covers the diagnosis and service of vehicle heating and air conditioning systems and their components. This course meets AST/MAST requirements. *Prerequisite: ASE 101 ("C" or better).* (Contact hours – 67.5)

ASTRONOMY

AST 101 PLANETARY ASTRONOMY w/Lab: SCI 4 CR (3-2)

Focuses on the history of astronomy, naked eye observations, tools of the astronomer, contents of the solar system, and life in the universe. Incorporates laboratory experience. *Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see p. 145). Co-requisite: CCR 94 and ENG 121. State Guaranteed Transfer Course in the GT-SC1 category.*

AST 102 STELLAR ASTRONOMY w/Lab: SCI 4 CR (3-2)

Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Stellar phenomena including white dwarves, black holes will be explored. Incorporates laboratory experience. *Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see p. 145). Co-requisite: CCR 94 and ENG 121. State Guaranteed Transfer Course in the GT-SC1 category.*

BIOLOGY

BIO 103 PRINCIPLES OF ANIMAL BIOLOGY 3 CR (3-0)

Introduces the study of animals and their interactions with the environment. This course includes principles of evolution, taxonomy, phylogeny, morphology, behavior and ecology. It includes the study of animal diversity, emphasizing the characteristics and classifications of major phyla. The loss of biodiversity and conservation are covered. (Contact hours – 45) State Guaranteed Transfer Course.

BIO 104 BIOLOGY: A HUMAN APPROACH 4 CR (3-2)

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. (Contact hours – 75) State Guaranteed Transfer Course.

BIO 105 SCIENCE OF BIOLOGY w/Lab: SC1 4 CR (3-2)

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. (Contact hours – 75) State Guaranteed Transfer Course.

BIO 111 GENERAL COLLEGE BIOLOGY I W/LAB 5 CR (4-2)

Examines the fundamental molecular, cellular, and genetic principles characterizing plants and animals. Includes cell structure and function, the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. This course includes laboratory experience. *Prerequisites:* Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). *Co-requisite:* CCR 94 and ENG 121. (Contact hours – 90) State Guaranteed Transfer Course.

BIO 112 GENERAL COLLEGE BIOLOGY II W/LAB 5 CR (4-2)

Continues Biology I. Includes ecology, evolution, classification, structure, and function in plants and animals. This course includes laboratory experience. *Prerequisite:* BIO 111 ("C" or better) OR instructor approval. (Contact hours – 90) State Guaranteed Transfer Course.

BIO 116 INTRODUCTION TO HUMAN DISEASE 3 CR (3-0)

Focused analysis of the causes and mechanics of human illness and death will be presented for each of the major human body systems. Selected diseases will be studied in greater detail including etiology, pathogenesis, epidemiology, sociology, and therapy. May be used as Natural and Physical Science requirement for AA & AGS Degrees and as an elective for AS Degree. (Contact hours – 45) State Guaranteed Transfer Course in the GT-SC2 category.

BIO 175 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours – 0 to 90)

BIO 201 HUMAN ANATOMY AND PHYSIOLOGY I

4 CR (3-2)

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, and nervous systems. Includes a mandatory hands-on laboratory experience covering experimentation, microscopy, observations, and dissection. This is the first semester of a two-semester sequence. *Prerequisite:* BIO 111 ("C" or better) OR BIO 104 ("C" or better) OR BIO 106 ("C" or better) OR instructor approval. (Contact hours – 75) State Guaranteed Transfer Course.

BIO 202 HUMAN ANATOMY & PHYSIOLOGY II 4 CR (3-2)

Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine system, 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. *Prerequisite:* BIO 111 ("C" or better) OR BIO 104 ("C" or better) OR BIO 106 ("C" or better), OR BIO 201 or equivalent ("C" or better) OR instructor approval. (Contact hours – 75) State Guaranteed Transfer Course.

BIO 204 MICROBIOLOGY w/Lab: SC1 4 CR (3-3)

Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category. *Prerequisite:* BIO 111 or equivalent ("C" or better), OR instructor approval. (Contact hours – 105)

BIO 208 GEN COLLEGE MICROBIOLOGY w/Lab 5 CR (4-3)

Surveys microorganisms with an emphasis on their structure, development, physiology, classification, and identification. Microbial diversity, functional anatomy, biochemistry, genetics, ecology, and disease are included. Mandatory hands-on laboratory experience includes sterile technique, microscopy, culture procedures, and biochemical and genetic analysis. This course is designed for biology and health science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. *Prerequisite:* BIO 111 ("C" or better) OR instructor approval. (Contact hours - 105) State Guaranteed Transfer Course.

BIO 216 PATHOPHYSIOLOGY 4 CR (3-2)

Focuses on the alterations in physiological, cellular, biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology. *Prerequisite:* BIO 201 OR 202 ("C" or better) OR instructor approval. (Contact hours – 75).

Additional courses are available through Colorado Community College Online (CCC Online).

BUSINESS

BUS 102 ENTREPRENEURIAL OPERATIONS 3 CR (3-0)

Covers the major aspects of small business management to enable the entrepreneur to successfully begin a business. This course provides the basic concepts of marketing, principles of management, and finance needed to manage a small business. Further it develops the business plan and suggests methods of obtaining the financing required to launch the business. (Contact hours - 45)

BUS 115 INTRODUCTION TO BUSINESS 3 CR (3-0)

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. *Prerequisite: Successful completion of REA 45 or 60 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Co-requisite: CCR 92.* (Contact hours - 45)

BUS 116 PERSONAL FINANCE 3 CR (3-0)

Surveys the basic personal financial needs of most individuals. Emphasizes the basics of budgeting and buying, saving and borrowing money, the intricacies of home ownership, income tax and investments, and the wise use of insurance, wills, and trusts. (Contact hours - 45)

BUS 120 INTRODUCTION TO E-COMMERCE 3 CR (3-0)

Provides an introduction to electronic commerce - the business trend of the future. Covers definition of e-commerce, technology and software requirements, security issues, electronic payment, and marketing strategies. Focuses on what to expect when creating a dot com as well as the business- to-business use of e-commerce. (Contact hours - 45)

BUS 175 SPECIAL TOPICS IN BUSINESS 1-6 CR (.25 to 7-0)

Provides students with a vehicle to pursue special topics of interest in business. The content of this course is designed on an as needed basis to provide current, up-to-date information. (Contact hours - 4 to 45)

BUS 185 INDEPENDENT STUDY 1-6 CR (0 to 0)

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

BUS 187 COOPERATIVE ED/INTERNSHIP 1-6 CR (0-0)

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 203 INTRO TO INTERNATIONAL BUSINESS 3 CR (3-0)

Provides students with an understanding of the interdisciplinary nature of international business. Course will cover the development of international business: theories and methods of international trade, financing mechanisms, terms used in export documentation and export finance, effects of economics, political and cultural environment on international business and trade, impact of geography in business transactions, legal aspects of international business, and developing an effective international marketing strategy. (Contact hours - 45)

BUS 216 LEGAL ENVIRONMENT OF BUSINESS 3 CR (3-0)

Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention will be devoted to economic regulation, social regulation, regulation and laws impacting labor-management issues, and environmental concerns. Students will develop an understanding of the role of law in social, political, and economic change. (Contact hours - 45)

BUS 217 BUS COMM & REPORT WRITING 3 CR (3-0)

Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication. *Suggested Prerequisite: Sentence Skills Accuplacer score of 95.* (Contact hours - 45)

BUS 226 BUSINESS STATISTICS 3 CR (3-0)

Focuses on statistical study, descriptive statistics, probability, binomial distribution, index numbers, time series, decision theory, confidence intervals, linear regression, and correlation. Intended for the business major. *Prerequisite: Elementary Algebra score of 85+ OR successful completion of MAT 50 or 90 or 96 or 99 ("C" or better) OR Math ACT score of 21 OR appropriate placement score (see page 139).* (Contact hours - 45)

BUS 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue special topics of interest in business. The content of this course is designed on an as needed basis to provide current, up-to-date information.

BUS 281 INTERNSHIP 1-6 CR

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.

BUS 285 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

BUS 287 COOPERATIVE EDUCATION 1-6 CR

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 288 PRACTICUM**0-6 CR**

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.

Additional courses are available through Colorado Community College Online (CCC Online).

COMPOSITION AND READING

CCR 91 COMPOSITION AND READING LAB**1 CR (1-0)**

Supports skill development for students registered in CCR 92 College Composition and Reading who score below RC 40 or SS 50. Topics covered in the course include those defined in CCR 092 and/or any foundational skills needed by the student. *Prerequisite: This course has reading placement requirements (see page 139). Paired with CCR 92.* (Contact hours - 15)

CCR 92 COLLEGE COMPOSITION AND READING**5 CR (5-0)**

Integrates and contextualizes college level reading and writing. Students will read and understand complex materials and respond to ideas and information through writing informative and/or persuasive texts. *Prerequisite: This course has reading placement requirements (see page 139).* (Contact hours - 75)

CCR 94 STUDIO 121**CR (3-0)**

Integrates and contextualizes reading and writing strategies tailored to co-requisite ENG 121 coursework. Students will read and understand complex materials and respond to ideas and information through writing informative and/or persuasive texts. *Prerequisite: This course has reading placement requirements (see page 139). Paired with ENG 121.* (Contact hours - 45)

Additional courses are available through Colorado Community College Online (CCC Online).

CHEMISTRY

CHE 101 INTRODUCTION TO CHEMISTRY**5 CR (4-2)**

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. *Prerequisite: MAT 55 ("C" or better).* (Contact hours - 90) State Guaranteed Transfer Course.

CHE 111 GEN COLLEGE CHEMISTRY I W/LAB**5 CR (4-3)**

Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry. 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. The course includes gases, liquids, and solids, and problem-solving skills are emphasized through Laboratory experiments.

Prerequisite: 1 year. high school chemistry or equivalent. Co-requisite: MAT 121 or instructor approval. (Contact hours - 105) State Guaranteed Transfer Course.

CHE 112 GEN COLLEGE CHEMISTRY II W/LAB**5 CR (4-3)**

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.

Prerequisite: CHE 111 ("C" or better). (Contact hours - 105) State Guarantee Transfer Course.

CHE 211 ORGANIC CHEMISTRY I W/LAB**5 CR (4-3)**

Designed for chemistry, premedical, and pre-veterinary students. 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, and reaction mechanism such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry. *Prerequisite: CHE 112 ("C" or better).* (Contact hours - 105)

CHE 212 ORGANIC CHEMISTRY II W/LAB**5 CR (4-3)**

Explores 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 Organic Chemistry I. The course explores functional groups including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids and the 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. *Prerequisite: CHE 211 ("C" or better).* (Contact hours - 105)

CHE 275 SPECIAL TOPICS**1-6 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CHE 285 INDEPENDENT STUDY**1-6 CR**

Provides the opportunity for the highly motivated student to engage in intensive study and research on a specified topic under the direction of a faculty member. Allows a student to complete a course in a semester when the course has not been offered or has been canceled. The option to make independent study available is at the discretion of qualified faculty and the department chair. The student is limited to the number of independent study courses taken per semester. *Prerequisite: instructor approval.*

COMPUTER INFORMATION SYSTEMS

CIS 117 INTRO TO TECHNICAL APPLICATIONS 2 CR (2-0)

Provides a basic introduction of standard software packages available to support a microcomputer-based workstation. Includes entry-level hands-on work with word processors, spreadsheets, electronic presentations and basic internet functionality to support the technical environment. (Contact hours - 30)

CIS 118 INTRO TO PC APPLICATIONS 3 CR (3-0)

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. (Contact hours - 45)

CIS 175 SPECIAL TOPICS .25 to 6 CR (.25 to 6-0)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 4 to 45)

CIS 259 MICROSOFT OFFICE SPECIALIST

CERTIFICATION PREPARATION: EXPERT EXCEL 1 CR (1-0)

Covers the competencies required to pass the Microsoft User Specialist (MOS) Excel Expert Exam. *Prerequisite: CIS 118 OR CIS 159 ("C" or better) OR instructor approval.* (Contact Hours - 15)

CIS 275 SPECIAL TOPICS 1-6 CR (1 to 6-0)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 4 to 45)

CIS 285 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. *Prerequisite: instructor approval.*

CIS 287 COOPERATIVE EDUCATION 1-6 CR

Provides students an opportunity to gain practical experience in applying their 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 to coordinate learning activities with the employer work site supervisor.

Additional courses are available through Colorado Community College Online (CCC Online).

COMMUNICATION

COM 115 PUBLIC SPEAKING 3 CR (3-0)

Combines the basic theory of speech communication with public speech performance skills. Emphasizes on speech delivery, preparation, organization, support, and audience analysis. (Contact hours - 45)

COM 125 INTERPERSONAL COMMUNICATION 3 CR (3-0)

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. (Contact hours - 45)

COM 175 SPECIAL TOPICS 1-6 CR (0-0)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

COM 217 GROUP COMMUNICATION 3 CR (3-0)

Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation.

COM 220 INTERCULTURAL COMMUNICATIONS 3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

COM 230 ARGUMENTATION AND DEBATE 3 CR (3-0)

Introduces the student to the theory of argumentation including reasoning, evidence, refutation, critical thinking, and extemporaneous speaking. The course includes practice in preparation and oral analysis of selected arguments and styles of debating. (Contact hours - 45)

Additional courses are available through Colorado Community College Online (CCC Online).

COSMETOLOGY

(All COS, EST, and NAT courses are a part of the Cosmetology Program and cannot be taken as independent courses.)

COS 103 INTRODUCTION TO HAIR & SCALP 1 CR (1-0)

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. (Contact hours - 15)

COS 110 INTRODUCTION TO HAIR COLORING 2 CR (1-1.5)

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. (Contact hours - 37.5)

COS 111 INTERMEDIATE I: HAIR COLORING 2 CR (0-3)

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. *Prerequisite: COS 110 ("C" or better).* (Contact hours - 45)

COS 120 INTRODUCTION TO HAIR CUTTING 2 CR (1-1.5)

Introduction to the theory relevant to patron protection, angles, elevations, 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 and sanitation procedures as they relate to haircutting. (Contact hours - 37.5)

COS 121 INTERMEDIATE I: HAIR CUTTING 2 CR (0-3)

Focuses on theory related to facial shapes and head and body forms to determine the client's appropriate haircut. Incorporates practical applications of hair cutting techniques in specialized classes or in a supervised salon setting. *Prerequisite: COS 120 ("C" or better).* (Contact hours - 45)

COS 130 INTRODUCTION TO HAIR STYLING 2 CR (1-1.5)

Combines theory with the practical application of roller placement, shaping, pin curls, finger waves, air forming, iron curling, soft pressing, and hard pressing. (Contact hours - 37.5)

COS 131 INTERMEDIATE I: HAIR STYLING 2 CR (0-3)

Focuses on the accepted methods of styling hair, air forming, roller sets, finger waves, pin curls, braiding and hair pressing. *Prerequisite: COS 130 ("C" or better).* (Contact hours - 45)

COS 140 INTRO TO CHEMICAL TEXTURE 1 CR (1-0)

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. (Contact hours - 15)

COS 141 INTERMEDIATE I: CHEMICAL TEXTURE 1 CR (0-1.5)

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. *Prerequisite: COS 140 ("C" or better).* (Contact hours - 22.5)

COS 150 LAWS, RULES & REGULATIONS 1 CR (1-0)

Provides instruction on the laws, rules, and regulations, and how they govern the cosmetology and barber industry, the effects of these on the student, licensed individual, salons, and school owners. (Contact hours - 15)

COS 160 INTRO TO INFECTION CONTROL & PREVENTION 2 CR (1-1.5)

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. (Contact hours - 37.5)

COS 161 INFECTION CONTROL 1 CR (0-1.5)

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 setting or specialized class. *Prerequisite: COS 160 ("C" or better).* (Contact hours - 22.5)

COS 203 INTERMEDIATE I: HAIR & SCALP 1 CR (0-1.5)

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. *Prerequisite: COS 103 ("C" or better).* (Contact hours - 22.5)

COS 210 INTERMEDIATE II: HAIR COLORING 2 CR (0-3)

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. *Prerequisite: COS 111 ("C" or better).* (Contact hours - 45)

COS 211 ADVANCED HAIR COLORING 2 CR (0-3)

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. *Prerequisite: COS 210 ("C" or better).* (Contact hours - 45)

COS 220 INTERMEDIATE II: HAIR CUTTING 2 CR (0-3)

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 hair cutting techniques. *Prerequisite: COS 121 ("C" or better).* (Contact hours - 45)

COS 230 INTERMEDIATE II: STYLING 2 CR (0-3)

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. *Prerequisite: COS 131 ("C" or better).* (Contact hours - 45)

COS 240 INTERMEDIATE II: CHEMICAL TEXTURE 1 CR (0-1.5)

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. *Prerequisite: COS 141 ("C" or better).* (Contact hours - 22.5)

COS 250 BUS MGT/PERSONAL SKILLS/ETHICS 1 CR (1-0)

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. (Contact hours - 15)

COS 260 INTERMEDIATE II: INFECTION CONTROL 1 CR (1-1)

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. *Prerequisite: COS 161 ("C" or better).* (Contact hours - 37.5)

COS 261 ADVANCED: INFECTION CONTROL 1 CR (0-1.5)

Provides advanced training on decontamination and safety practices in a supervised salon 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.

Prerequisite: COS 260 ("C" or better). (Contact hours - 22.5)

COS 275 SPECIAL TOPICS 0.5-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 7.5 - 90)

COS 279 SEMINAR/WORKSHOP: 0.5-6 CR

This course provides students with an experiential learning opportunity. (Contact hours - 7.5 - 90)

COS 280 INTERNSHIP 0.5-6 CR

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. (Contact hours - 7.5 - 90)

COS 285 INDEPENDENT STUDY 0.5-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. (Contact hours - 7.5 - 90)

COS 288 PRACTICUM 0.5-10 CR

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. (Contact hours - 7.5 - 150)

COS 289 CAPSTONE 1-3 CR

Provides advanced training in all course areas and prepares student for the State Board Licensing Examination. Hours will be arranged. *Prerequisite: Student must have acquired 1,000 hours or more.* (Contact hours - 15 - 45)

COS 290 PROFESSIONAL DEV/CONTINUING ED 0.5-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 7.5 - 90)

CRIMINAL JUSTICE

CRJ 110 INTRO TO CRIMINAL JUSTICE 3 CR (3-0)

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. (Contact hours - 45)

CRJ 125 POLICING SYSTEMS 3 CR (3-0)

Examines the complexity and multi-dimensional aspects of the law enforcement role and career law enforcement discretion and law enforcement values and culture in modern America. Covers the role and functions of law enforcement in occupational, social, political, and organizational context. (Contact hours - 45)

CRJ 127 CRIME SCENE INVESTIGATION 3 CR (3-0)

Focuses on basic procedures in crime scene management to include photography and preparing initial reports and sketches. Includes processing evidence and related criminalistics procedures. Covers interviewing suspects, witnesses and victims to include the recording of identifications and descriptions. Incorporates lab and lecture. (Contact hours - 45)

CRJ 135 JUDICIAL FUNCTIONS 3 CR (3-0)

Examines the criminal process with an analysis of the major judicial decision makers, i.e. prosecutors, defense attorneys, judges and the discretionary aspects of adjudication. (Contact hours - 45)

CRJ 145 CORRECTIONAL PROCESS 3 CR (3-0)

Focuses on the post-conviction corrections process, the development of a correctional philosophy, theory and practice, the description of institutional operation, programming and management, and the community-based corrections, probation and parole. (Contact hours - 45)

CRJ 146 COMMUNITY BASED CORRECTIONS 3 CR (3-0)

Introduces an analysis of community based correctional programs and procedures. Emphasizes the environment and the relationship to public safety, reintegration and punishment. (Contact hours - 45)

CRJ 180 INTERNSHIP 1-6 CR

Provides placement in the criminal justice field to integrate theory with practice. (Contact hours - 15 - 90)

CRJ 185 INDEPENDENT STUDY 1-6 CR

This course meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. (Contact hours - 15 - 90)

CRJ 205 PRINCIPLES OF CRIMINAL LAW 3 CR (3-0)

Focuses on common law and statutory crimes, the Model Penal Code, elements defining crimes and penalties, defenses to criminal accusations and definitions and distinctions between criminal and civil law. (Contact hours - 45)

CRJ 209 CRIMINAL INVESTIGATION I 3 CR (3-0)

Covers the function of the preliminary investigation at a crime scene to include securing the scene, crime scene searchers, police drawings and recognition and collection of evidence. (Contact hours - 45)

CRJ 231 Intro Forensic Science/Criminalist 3 CR (3-0)

Exploration of the fundamentals of forensic science that are essential for gathering evidence at the crime scene and analyzing it in the crime laboratory. (Contact hours - 45)

CRJ 235 DELINQUENT BEHAVIOR 3 CR (3-0)

Focuses on the adolescent who violates social and legal norms and the consequences for the individual and society. Emphasizes the social and psychological factors influencing individual delinquent patterns. (Contact hours – 45)

CRJ 236 CRJ RESEARCH METHODS 3 CR (3-0)

Introduces and applies methods for criminal justice and criminology with an emphasis on the scientific method and the role of empirical inquiry into criminal justice and criminology. This course will include the study of methodologies of data collection and analysis, the logic of research, the role of theory, measurement, sampling and research designs. Field research and the professional norms and ethics of criminal justice and criminology research will also be covered. (Contact hours – 45)

CRJ 268 CRIMINAL PROFILING 3 CR (3-0)

Examines theories of crime causation with respect to crimes committed by the most violent offenders in society. An analysis of the research done and the history of Criminal Personality Profiling, beginning with the earliest explanations through the beliefs of modern science as well as psychological and sociological explanations. Identifies various known offenders, examines their backgrounds and explains how current research into homicide, sexual offenses and serial killers can provide clues to the identity of unknown offenders. (Contact hours – 45)

CRJ 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of a special topics of interest. (Contact hours – 15 – 90)

CRJ 285 INDEPENDENT STUDY 1-6 CR

This course meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. (Contact hours – 15 – 90)

Additional courses are available through Colorado Community College Online (CCC Online).

COMPUTER WEB

CWB 110 COMPLETE WEB AUTHORING 3 CR (3-0)

Explores the complete set of web authoring skills using HTML and/or other scripting languages. Includes links, backgrounds, controlling text and graphic placement, tables, image maps, frames and forms. (Contact hours – 45)

CWB 130 COMPLETE WEB EDITING TOOLS 3 CR (3-0)

Provides tools for designing and building easy to use web pages that have a pleasing look. The student will develop web pages using a web page development program. Use of images, forms, frames, tables, templates and layers will be covered. (Contact hours – 45)

CWB 175 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CWB 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CWB 285 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. *Prerequisite: instructor approval.*

Additional courses are available through Colorado Community College Online (CCC Online).

COOPERATIVE WORK EXPERIENCE

CWE 187 COOPERATIVE WORK EXPERIENCE 2 - 8 CR (2 – 8-0)

Freshman student is provided an extension and application of classroom instruction through a supervised work experience that is related to the student's educational and career goals. Credit is awarded on the basis of time objectives, record of experiences and final term report. (Contact hours – 80-320)

CWE 287 COOPERATIVE WORK EXPERIENCE 2– 8 CR (2 – 8-0)

Sophomore student is provided an extension and application of classroom instruction through a supervised work experience that is related to the student's educational and career goals. Credit is awarded on the basis of time objectives, record of experiences and final term report. (Contact hours – 80-320)

DANCE

DAN 115 COUNTRY SWING I 1 CR (0-2)

Includes many styles and various combinations of steps for Western dance music. Will also teach the students how to convert combinations of others dances of traditional and fad as they become popular. (Contact hours - 30)

DAN 116 COUNTRY SWING II 1 CR (0-2)

Teaches advanced steps and dancing skills, which will enable student to enjoy the art of dancing for a leisure time activity. (Contact Hours - 30)

DIESEL POWER MECHANICS

DPM 101 DIESEL SHOP ORIENTATION 2 CR (0-3)

Focuses on maintaining a safe and clean working heavy-duty diesel shop. Emphasis is placed on the proper use and care for hand, electric, air, and hydraulic tools safely. Covers how to clean equipment properly, to handle and dispose of hazardous materials correctly, and to apply mandated regulations. Emphasis is also placed on proper lifting equipment. (Contact hours - 45)

DPM 103 DIESEL ENGINES I**4 CR (0-6)**

Covers the theory and operation of diesel engines with emphasis on cylinder heads, valve train diagnosis, and repair. This course introduces the cooling system's importance in diagnosis and repair. This course meets Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 90)

DPM 104 DIESEL ENGINE COOLING SYSTEMS**2 CR (0-3)**

Focuses on heavy-duty diesel engine and turbo charger cooling systems including coolant identification, circulation, testing, and repair. This course meets Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 45)

DPM 105 HEAVY-DUTY POWERTRAINS I**3 CR (0-4.5)**

Focuses on drive axles and universal joints of heavy-duty trucks and equipment including operation, testing, removal, inspections, and repair of heavy-duty drivelines, axles, and differentials. This course meets the Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 67.5)

DPM 191 DIESEL FUEL SYSTEMS**2 CR (0-3)**

Covers the theory of operation and repair of fuel injection systems including disassembly, assembly, and service procedures on fuel system components. This course meets the Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 45)

DPM 209 HEAVY DUTY DYNAMIC BRAKE SYSTEM**2 CR (0-3)**

Includes diagnosis and repair of heavy-duty antilock brake (ABS), automatic traction control (ATC), and electronic stability control (ESC) systems. This course meets Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 45)

DPM 111 CAB & ELECTRICAL PMI**1.5 CR (0-2.25)**

Enables the student to perform preventive maintenance on heavy equipment, truck cab, and electrical systems and to complete appropriate maintenance records. Addresses the process of diagnostics and troubleshooting. Focuses on the importance of preventive maintenance. Non-ASE Education course. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 33.75)

DPM 112 ENGINE SYSTEMS PMI**1.5 CR (0-2.25)**

Enables the student to perform preventive maintenance on heavy equipment and truck diesel engine systems and to complete appropriate maintenance records. Addresses the process of diagnostics and troubleshooting. Focuses on the importance of preventive maintenance. Non-ASE Education course. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 33.75)

DPM 120 BASIC HEAVY-DUTY ELECTRICITY**2 CR (0-3)**

Covers basic electrical theory, circuit designs, wiring methods, multi-meter usage, and wiring diagrams including the demonstration of test procedures on electrical circuits. This course meets the Inspection, Maintenance & Minor Repair; Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (IMMR/TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 45)

DPM 192 HYDRAULIC SYSTEMS I**1 CR (0-1.5)**

Covers the basic fundamentals of hydraulics including the inspection, minimum service, and safety considerations. This course meets the Inspection, Maintenance & Minor Repair; Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (IMMR/TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 22.5)

DPM 122 HYDRAULIC SYSTEMS II**3 CR (0-4.5)**

Covers the repair, replacement, measurement, and adjustments of components including pumps, control valves, and cylinders. This course meets the Medium/Heavy Truck Master Service Technology (MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 67.5)

DPM 126 HEAVY-DUTY STARTING & CHARGING**3 CR (0-4.5)**

Covers the operation, testing, maintenance, repair, and servicing of heavy-duty vehicle battery, starting, and charging systems including voltage drop testing and load testing. This course meets the Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 67.5)

DPM 136 H/D CAB INSPECTION & MAINT**2 CR (0-3)**

Focuses on performing inspections and maintenance of heavy-duty cab safety systems and accessories. This course meets the Inspection, Maintenance, and Minor Repair (IMMR) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 45)

DPM 140 H/D STEERING & SUSPENSION I**3 CR (0-4.5)**

Emphasizes lecture and related lab in the diagnosis and service of heavy duty mechanical and air suspension systems, wheels, tires, and pressure management systems. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 67.5)

DPM 203 DIESEL ENGINES II**4 CR (0-6)**

Covers the operation and repair of diesel engines with emphasis on the cylinder block in big bore engines. This course includes the disassembly, inspection, and reassembly of diesel engines. This course meets the Medium/Heavy Truck Master Service Technology (MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 90)

DPM 205 HEAVY-DUTY POWERTRAINS II 3 CR (0-4.5)

Covers clutch and transmission problems. The course focuses on clutch and transmission operation, testing removal, rebuilding, inspection, repairing, and replacement. This course meets the Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 67.5)

DPM 206 HEAVY-DUTY BRAKES I 3 CR (0-4.5)

Focuses on the various braking systems incorporated in heavy duty trucks and heavy equipment including the diagnosis and service of hydraulic, mechanical, and electrical brake components. This course meets the Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 67.5)

DPM 207 HEAVY-DUTY BRAKES II 3 CR (0-4.5)

Focuses on general service and maintenance procedures for the heavy-duty truck air brake system and related pneumatic components including operational checks, performance testing, and verifying system compliance with regulations to the Federal Motor Vehicle Safety Standards (FMVSS No. 121). This course meets the Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 67.5)

DPM 208 H/D AUTO/ELEC TRANS DIAGNOSIS 1 CR (0-1.5)

Provides laboratory hands-on experiences in the diagnosis of electrically controlled heavy-duty transmissions. Non-ASE Education course. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 22.5)

DPM 210 AIR INDUCTION & EXHAUST 2 CR (0-3)

Covers the theory of operation and repair of turbochargers, superchargers, intercoolers, various induction and exhaust systems. This course examines factors regulating engine performance failure, and procedures for reclaiming engine performance. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 45)

DPM 211 DRIVETRAIN & STEERING PMI 1.5 CR (0-2.25)

Focuses on preventive maintenance of heavy-duty truck and equipment drivetrains and steering systems including recording of critical information for the customer. Enables students to grasp the importance of preventive maintenance while gaining an understanding of component operation. Non-ASE Education course. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 33.75)

DPM 212 BRAKE SYSTEMS PMI 1.5 CR (0-2.25)

Focuses on preventive maintenance of heavy-duty truck and equipment hydraulic and pneumatic brake systems including recording of critical information for the customer. Enables students to grasp the importance of preventive maintenance while gaining an understanding of component operation. Non-ASE Education course. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 33.75)

DPM 240 H/D STEERING & SUSPENSION 3 CR (0-4.5)

Covers the diagnosis and service of heavy-duty standard and air assisted steering along with chassis and frame alignment.

This course meets the Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 67.5)

DPM 222 H/D LIGHTING & INSTRUMENTATION 3 CR (0-4.5)

Covers the diagnosis and repair of lighting systems found on medium and heavy-duty trucks and equipment including inspection and testing of electrical circuits and interfacing through a data bus with onboard computers. This course meets the Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 67.5)

DPM 291 H/D BODY ELECTRICAL SYSTEMS 2 CR (0-3)

Provides a comprehensive study of the theory, operation, diagnosis, and repair of the heavy-duty vehicle body, safety electrical systems, and accessories. This course meets the Medium/Heavy Truck Master Service Technology (MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 45)

DPM 264 H/D HEATING & VENTILATION 2 CR (0-3)

Covers the diagnosis, service, and repair of heavy-duty equipment heating and ventilation systems. This course meets the Inspection, Maintenance & Minor Repair; Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (IMMR/TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 45)

DPM 265 HEAVY DUTY A/C SYSTEMS SERVICE 3 CR (0-4.5)

Covers the diagnosis, service, and repair of heavy-duty vehicle air conditioning systems and their components. This course meets the Medium/Heavy Truck Service Technology/Medium/Heavy Truck Master Service Technology (TST/MTST) program accreditation standards. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 67.5)

DRIVING

DRV 130 PREPARING FOR CDL 2 CR (1-1.5)

Prepares students for the CDL written test with detailed study guides in conjunction with the Colorado CDL manual. Students will learn to conduct walk-around inspections and become familiar with the course layout and driving portion of the test. (Contact hours – 37.5)

EARLY CHILDHOOD EDUCATION

ECE 101 INTRODUCTION TO EARLY CHILDHOOD PROFESSION 3 CR (3-0)

Provides an introduction to the profession of Early Childhood Education (ECE). Course content includes eight key areas of professional knowledge related to working with young children and their families in early care and education settings: child growth and development; health, nutrition and safety; developmentally appropriate practices; guidance; family and community relationships; diversity and inclusion; professionalism; and administration and supervision. This course addresses children ages birth through 8 years. (Contact hours – 45)

ECE 102 INTRODUCTION TO EARLY CHILDHOOD LAB TECHNIQUES 3 CR (1-4)

Focuses on a classroom seminar and placement in a childcare 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 eight. *Prerequisite or Co-requisite: ECE 101 ("C" or better).* (Contact hours – 75)

ECE 103 GUIDANCE STRATEGIES FOR CHILDREN 3 CR (3-0)

Explores guidance theories, applications, goals and techniques, as well as factors that influence behavioral expectations of children. This course includes classroom management and pro-social skills development of young children in early childhood (EC) program settings. This course addresses children ages birth through eight years. (Contact hours – 45)

ECE 108 THE ASSESSMENT PROCESS IN EARLY CHILDHOOD EDUCATION 1 CR (0-2)

Focuses on exposing students to a wide variety of screening tools and evaluations appropriate for children birth to eight years of age. Enables students to gain beginning knowledge in the selection of developmental screen tools and evaluations important to the IFSP/IEP. (Contact hours – 30)

ECE 111 INFANT AND TODDLER THEORY AND PRACTICE 3 CR (3-0)

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. Focuses on birth through age 3. (Contact hours – 45)

ECE 112 INTRODUCTION TO INFANT/TODDLER LAB TECHNIQUES 3 CR (1-4)

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 through age two. *Prerequisite or Co-requisite: ECE 111 ("C" or better).* (Contact hours – 75)

ECE 130 THE PROFESSIONAL NANNY 3 CR (3-0)

Explores the nanny's role and responsibilities when working with today's families. Includes professional relationships, ethics, commitment to children, the challenges and rewards of working in a private home, communications, taking care of one's own well-being as a nanny, social skills, travel, the process of seeking a nanny position, employer responsibilities, the nanny job description and written employment agreement and starting and leaving a job. (Contact hours – 45)

ECE 131 NANNY METHODS AND TECHNIQUES 3 CR (3-0)

Explores the competencies required of a nanny to care for children in a private home setting. Includes creating a safe home environment, planning and implementing developmentally appropriate play/learning activities for children, traveling with children, children's clothing, children's equipment and play materials, sleep routines, personal care, feeding and mealtimes. Incorporates a lab where students gain practical experience in providing in-home care for children. (Contact hours – 15-hours lecture; 1 credit, 75 hours field instruction in licensed child care home; 2 credits)

ECE 175 SPECIAL TOPICS 1-6 CR

Explores current topics, issues and activities related to one or more aspects of the early childhood profession. (Contact hours – 15-90)

ECE 178 WORKSHOP 1-6 CR

Provides students with an experiential learning opportunity. (Contact hours – 15-90)

ECE 179 SEMINAR 1-6 CR

Provides students with an opportunity to examine aspects of early childhood education in detail. (Contact hours – 15-90)

ECE 185 INDEPENDENT STUDY 1-3 CR

Focuses on structured, guided and individualized research that is organized and tailored around the interests and needs of the individual student. (Contact hours – 15-90)

ECE 205 NUTRITION, HEALTH & SAFETY 3 CR (3-0)

Focuses on nutrition, health and safety as key factors 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 eight. (Contact hours – 45)

ECE 209 OBSERVING & UTILIZING YOUNG CHILDREN'S ASSESSMENT INSTRUMENTS 1 CR (1-0)

Examines the current research on the continuous practice of observing children. Incorporates practice with a variety of assessment instruments currently utilized in Colorado ECE programs. (Contact hours - 15)

ECE 220 CURRICULUM DEV: METHODS & TECHNIQUES**3 CR (3-0)**

Provides an overview of early childhood curriculum development. This course includes processes for planning and implementing developmentally appropriate environments, materials, and experiences that represent best practices in early childhood (EC) program settings. This course addresses children age birth through 8 years. (Contact hours - 45)

ECE 226 CREATIVITY AND THE YOUNG CHILD**3 CR (3-0)**

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 age birth through age 8. (Contact hours - 45)

ECE 228 LANGUAGE AND LITERACY**3 CR (3-0)**

Presents strategies for optimum language development, literacy, social, and emotional development. Supports children's language and literacy in home, classroom, and community settings. Provides appropriate teacher/child verbal interactions, classroom environments, and activities. Addresses age birth through age 8. (Contact hours - 45)

ECE 238 CHILD GROWTH & DEVELOPMENT**3 CR (3-0)**

Covers the growth and development of the child from conception through the elementary school years. This course emphasizes physical, cognitive, language, social, and emotional domains of development as they pertain to the concept of the whole child. It also includes ways adults can provide a supportive early childhood care and educational environment through teamwork and collaboration. (Contact hours - 45)

ECE 240 ADMIN OF EARLY CHILDHOOD CARE AND EDUCATION PROGRAMS**3 CR (3-0)**

Provides foundational knowledge in early childhood program business operations, program development, and evaluation. This course covers administrative skills, ethical decision making, risk and resource management, and components of quality Early Childhood Education (ECE) programs serving children age birth through 12 years. *Prerequisite: ECE 101 ("C" or better).* (Contact hours - 45)

ECE 241 ADMINISTRATION: HUMAN RELATIONS FOR EARLY CHILDHOOD PROFESSIONS**3 CR (3-0)**

Focuses on the human relations component of an early childhood professional's responsibilities. This course includes director-staff relationships, staff development, leadership strategies, family-professional partnerships and community interaction. (Contact hours - 45)

ECE 256 WORKING WITH PARENTS, FAMILIES, & COMMUNITY SYSTEMS**3 CR (3-0)**

Examines personal attitudes regarding families, family values systems, and how personal attitudes affect parent-professional partnerships in the early childhood education program. This course covers communication, problem-solving and conflict resolution strategies. Effective activities and resources to support family involvement in the classroom will be created. This course addresses children ages birth through 8 years. (Contact hours - 45)

ECE 260 EXCEPTIONAL CHILD**3 CR (3-0)**

Presents an overview of critical elements related to educating young children with disabilities or special needs in the early childhood setting. Topics include: typical and atypical development; legal requirements; research-based practices related to inclusion; teaming and collaboration; and accommodations and adaptations. This course examines how a disability or special need may impact a young child's learning process. This course addresses children ages birth through 8 years. *Prerequisite: ECE 238 ("C" or better).* (Contact hours - 45)

ECE 285 INDEPENDENT STUDY**1-6 CR**

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. (Contact hours - 15 - 90)

ECE 288 PRACTICUM: EARLY CHILDHOOD ED**1-7 CR**

Provides students with advanced field experience opportunities in early childhood education programs. Prerequisites or Co-requisite: ECE 108 and ECE 209 ("C" or better). (Contact hours - 15 - 105)

Additional courses are available through Colorado Community College Online (CCC Online).

ECONOMICS

ECO 101 ECONOMICS OF SOCIAL ISSUES**3 CR (3-0)**

Examines the major socio-economic issues of the past century. Covers poverty and growth, education, health care, pollution, and discrimination. (Contact hours - 45) State Guaranteed Transfer Course.

ECO 201 PRINCIPLES OF MACROECONOMICS**3 CR (3-0)**

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. *Prerequisites: Successful completion of CCR 92 and minimum of MAT 50 ("C" or better).* (Contact hours - 45) State Guaranteed Transfer Course.

ECO 202 PRINCIPLES OF MICROECONOMICS**3 CR (3-0)**

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. *Prerequisites: Successful completion of CCR 92 and minimum of MAT 50 ("C" or better).* (Contact hours - 45) State Guaranteed Transfer Course.

Additional courses are available through Colorado Community College Online (CCC Online).

EDUCATION

EDU 101 CRLA TUTOR CERT-REGULAR 1 CR (1-0)

This course is designed for tutors and learning assistants and introduces them to effective tutoring strategies. Topics include guidelines for tutoring, how to plan, conduct, and evaluate a productive tutoring session, recognizing needs of students, and developing effective learning strategies with students. *Prerequisite: instructor approval.* (Contact hours - 15)

EDU 175 SPECIAL TOPICS .25-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. *Prerequisite: instructor approval.* (Clock hours - 3.75 - 90)

EDU 185 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. *Prerequisite: instructor approval.* (Contact hours - 15 - 90)

EDU 221 INTRODUCTION TO EDUCATION 3 CR (3-0)

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. *Prerequisite: College level reading.* (Contact hours - 45)

EDU 222 EFFECTIVE TEACHING 1 CR (1-0)

Focuses on strategies for becoming an effective teacher. Topics included are: course goals and objectives, the first day, planning a lesson, higher levels of thought, test design and grading, assessment, and teaching and learning styles. (Contact hours - 15)

EDU 234 MULTICULTURAL EDUCATION 3 CR (3-0)

Focuses on the need to recognize and understand the similarities and differences among people and develop a respect for all individuals and groups. Assists teachers to recognize the special learning needs of children from different racial, ethnic, cultural and socioeconomic groups, and to encourage teachers to integrate multicultural/diversity teaching into the school curriculum. (Contact hours - 45)

EDU 251 SECONDARY CTE CAPSTONE 3 CR (3-0)

This capstone course, in the secondary CTE credentialing sequence offers an in-depth analysis of secondary career and technical student organizations and competitions, the Colorado Technical Act, working with exceptional students, creating and effectively deploying program advisory committees, and an overview of educational and political systems in Colorado. The final project is an analysis of the efficiency with which one's employing school district funds, operates, and assesses CTE programs. (Contact hours - 45)

EDU 253 ACADEMIC INSTRUCTION IN CTE FOR CTE AND CORE ACADEMIC INSTRUCTORS 2 CR (2-0)

Provides secondary core academic teachers of Math, Language Arts, and Science the opportunity to develop lessons and assessments aligned with Career and Technical Education (CTE) competencies and that include core academic content. Partnerships between both CTE and academic teachers will better prepare them to teach career relevancy within the context of the core academic standards. This course meets the Colorado Department of Education criteria for contextual learning requirement needed for the Initial Integrated Math, Science, or Communications credential. (Contact hours - 30)

EDU 260 ADULT LEARNING & TEACHING 3 CR (3-0)

Examines the philosophy of community colleges and the roles and responsibilities of the faculty member within the college community. Introduces basic instructional theories and application, with particular emphasis on adult learners. Includes syllabus development, learning goals and outcomes, and lesson plans. Emphasizes teaching to a diverse student body, classroom management, assessment, and instructional technology. (Contact hours - 45)

EDU 261 TEACHING, LEARNING & TECHNOLOGY 3 CR (3-0)

Prepares students to integrate technology into their teaching curriculum. Enables the student to design educational and training materials incorporating instructional technology. Explores a variety of technologies including the computer, Internet, multimedia, graphics, audio, and text with an emphasis on increasing learning through their use. Examines combining technology with a variety of instructional methodologies. *Prerequisite: EDU 221 ("C" or better) OR instructor approval.* (Contact hours - 45)

EDU 266 ADV. COLLEGE TEACHING METHODS 1 CR (1-0)

Explores current adult learning theory and relates this theory to the practice of teaching. It also covers a variety of factors that influence teaching and learning including social and individual psychological aspects of adult learning, patterns of participation and motivation, the role of instructional technology, handling challenging classroom behaviors, and assessment and evaluation strategies. The main point raised and discussed throughout the course is that effective teaching requires that instructors utilize a range of teaching and assessment approaches and methods in order to enhance learning. (Contact hours - 15)

EDU 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 3.75 - 90)

EDU 285 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. (Contact hours - 3.75 - 90)

Additional courses are available through Colorado Community College Online (CCC Online).

ENGINEERING

EGG 271 THEORETICAL MECHANICS - STATICS 3 CR (3-0)

Emphasizes vectors, resolution and composition of forces in two and three dimensions, free body diagrams, equilibrium conditions, moments, couples, centroids, and moments of inertia. *Prerequisite: PHY 211 ("C" or better).* (Contact hours - 45)

EGG 272 THEORETICAL MECHANICS – DYNAMICS 3 CR (3-0)

Focuses on a study of kinematics and kinetics of particles and rigid bodies. Addresses the concepts of work-energy and impulse-momentum using vector notation. *Prerequisite: EGG 271 ("C" or better).* (Contact hours - 45)

EGG 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 15 – 90)

ELECTRICITY INDUSTRIAL/COMMERCIAL

EIC 101 JOB TRAINING AND SAFETY 3 CR (0-4.5)

Studies first aid, CDL, basic use and care of personal protective equipment, use and care of climbing equipment, daily inspection and basic use of motorized equipment. (Contact hours – 67.5)

EIC 220 INDUSTRIAL ELECTRICAL CONTROLS 4 CR (0-6)

Studies the application of electrical and electromechanical sensing/control devices, heating, ventilating, and air conditioning applications, motor control, conveyor drives, and other industrial applications. Students design control systems to meet assigned conditions, use principles of relay logic to prepare correct ladder diagrams, and wire up, test, and trouble-shoot their systems in the laboratory. The course stresses accuracy, safety, and National Electric Code requirements. *Prerequisites: ELT 252 ("C" or better).* (Contact hours - 90)

ELECTRONICS

ELT 106 FUNDAMENTALS OF AC/DC 4 CR (0-6)

Introduces the basic skills needed for many careers in electronics and related fields. Covers the operations and applications of basic DC and AC circuits consisting of resistors, capacitors, inductors, transformers and diodes. Emphasizes the use of common test instruments in troubleshooting. (Contact hours - 90)

ELT 107 FUNDAMENTALS OF INDUSTRIAL ELECTRONICS 3 CR (0-4.5)

Provides a basic knowledge of generators, motors, and the solid state devices and digital techniques used for industrial control applications. *Prerequisite: ELT 106 ("C" or better).* (Contact hours – 67.5)

ELT 252 MOTORS AND CONTROLS 3 CR (0-4.5)

Enables the student to study, construct, test, and evaluate basic industrial control systems including AC/DC motors, stepper motors, power sources, generators, tachometers, line diagrams, and logic functions. Covers safety standards and preventive maintenance. *Prerequisite: ELT 106 ("C" or better).* (Contact hours – 67.5)

ELT 258 PROGRAMMABLE LOGIC

CONTROLLERS 3 CR (0-4.5)

Covers the fundamentals of programmable logic controllers (PLCs) as they are applied in robotics and automation. Includes history, terminology, operating, monitoring, programming, troubleshooting, and repairing PLC controlled lab trainers as well as actual industrial equipment. *Prerequisite: ELT 252 ("C" or better).* (Contact hours – 67.5)

ELT 259 ADVANCED PROGRAMMABLE

LOGIC CONTROL 3 CR (0-4.5)

Serves as the second in a two course sequence and covers advanced topics and applications for programmable logic controllers (PLCs) as they are applied in robotics and automation. Includes advanced programming, Human Machine Interfaces (HMIs), introduction to automation, networking, and system integration. Incorporates lab and project activities, troubleshooting, and repairing PLC controlled lab trainers as well as actual industrial equipment. (Contact hours – 67.5)

EMERGENCY MEDICAL SERVICES

(Also see Health Professional for additional courses.)

EMS 115 EMERGENCY MEDICAL RESPONDER 3 CR (2-1.5)

Provides the student with core knowledge and skills to function in the capacity of a first responder arriving at the scene of an emergency and providing supportive care until advanced EMS help arrives. *Prerequisite: This course has reading placement requirements (see page 139).* *Co-requisite: CCR 94 and ENG 121.* (Contact hours – 52.5)

EMS 116 FIRST RESPONDER REFRESHER 2 CR (1-1.5)

Provides the First Responder student with needed updates and review materials to renew and maintain the First Responder certificate. *Prerequisite: Current First Responder Certification and CPR card.* (Contact hours - 37.5)

EMS 121 EMT FUNDAMENTALS 3 CR (3-0)

Introduces the Emergency Medical Technician (EMT) student to prehospital emergency care. The topics included in this course are Emergency Medical Services (EMS) systems, well-being of the EMT, communications, documentation, anatomy, airway management, and patient assessment. *Co-requisites: HPR 102, EMS 122, EMS 123 and EMS 170.* (Contact hours - 7.5 - 150)

EMS 122 EMT MEDICAL EMERGENCIES 4 CR (2-2.5)

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to effectively provide emergency care and transportation to a patient experiencing a medical emergency. This course focuses on the integration of the physical exam, medical history and patient assessment. *Co-requisites: EMS 121, EMS 123 and EMS 170.* (Contact hours – 75)

EMS 123 EMT TRAUMA EMERGENCIES 2 CR (1-1.5)

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to provide appropriate emergency care and transportation of a patient who has suffered a traumatic injury. The concepts of kinematics and the biomechanics of trauma, along with pathophysiology when assessing and treating the medical patient. *Co-requisites: EMS 121, EMS 123 and EMS 170.* (Contact hours – 75)

EMS 126 EMT BASIC REFRESHER 2 CR (1-1.5)

Provides the student with a refresher course designed to meet the recertification requirements for the State of Colorado and/or a portion of the recertification for National Registry. *Prerequisites: Current CPR card, current or less than 36 months expired EMT Basic Certification.* (Contact hours – 37.5)

EMS 130 EMT INTRAVENOUS THERAPY 2 CR (2-0)

Focuses on cognitive and skill practice as required by Colorado Prehospital 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. *Prerequisite: Current EMT Basic certification or proper licensure.* (Contact hours - 30)

EMS 170 EMT BASIC CLINICAL 1 CR (0-1)

Provides the EMT student with the clinical experience required of initial and some renewal processes. *Prerequisite: HPR 102 ("C" or better).* *Co-requisite: EMS 125.* (Contact hours – 30)

EMS 175 SPECIAL TOPICS .5 -10 CR (.5 TO 10-0)

Provides the student with Continuing Medical Education at the First Responder or EMT Basic Level. Courses may be combined in an entire program to meet Prehospital Care [Program Requirements](#) for renewal of certificates. *Prerequisite: Current certification- EMT Basic or First Responder.* (Contact hours - 7.5 - 150)

EMS 190 EMT PROFESSIONAL DEVELOPMENT .5 - 12 CR

Provides the student with the 36 hours of continuing medical education hours required for the State of Colorado Recertification at an EMT Basic level. Provide professional development continuing medical education hours for EMT basics wishing to recertify at the state or national level. *Prerequisite: Current Colorado EMT Basic certification.*

EMS 275 SPECIAL TOPICS .5 - 10 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 7.5 – 150)

ENGLISH

ENG 110 ENGLISH USAGE AND GRAMMAR 3 CR (3-0)

Ensures that the student has achieved a high level of correctness, conciseness, and precision in language use and understands the principles of organizing ideas, providing adequate supporting data, and drawing logical conclusions.

ENG 115 TECH ENGLISH & COMM 3 CR (3-0)

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. *Prerequisite: Successful completion of ENG 30 or 45 AND REA 30 or 45 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 45)

ENG 121 ENGLISH COMPOSITION I 3 CR (3-0)

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, persuasive/argumentative writing. *Prerequisite: Successful completion of ENG 90 AND REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 45) State Guaranteed Transfer Course.

ENG 122 ENGLISH COMPOSITION II 3 CR (3-0)

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. *Prerequisite: ENG 121 ("C" or better) or ACT Writing Score of 26.* (Contact hours - 45) State Guaranteed Transfer Course.

ENG 131 TECHNICAL WRITING 3 CR (3-0)

Develops technical 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. *Prerequisites: Successful completion of ENG 30 or 45 AND REA 30 or 45 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours – 45)

ENG 175 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 15 - 90)

ENG 201 ENGLISH COMPOSITION III**3 CR (3-0)**

Provides students with skills necessary to enter into higher-level undergraduate academic discourse or professional workplace writing. ENG 201 extends students rhetorical knowledge and develops critical reading, thinking, and writing strategies in multiple specialized areas of discourse beyond what they encounter in ENG 122. In ENG 201, students deepen their rhetorical and writing skills by learning to analyze, synthesize and summarize complex texts and incorporate this information into writing conventions for a defined discipline. As a more advanced composition course, ENG 201 provides interested students with the opportunity to continue their exploration of expository writing with the added benefit of learning to write for distinct audiences (format, language, level of specificity, length, and documentation style). Students will also learn effective editing and revising techniques, discipline-specific writing strategies, and how to extend their mastery of rhetorical strategies.

While ENG 201 may be taught with the focus in a variety of disciplines (science writing, gender studies, literary criticism, writing in the humanities, business writing, political geography, philosophy, and so on), every discipline will allow students the opportunity to learn how to communicate with specialized audiences and adapt content to the needs of varying rhetorical situations. (Contact hours - 45) State Guaranteed Transfer Course.

ENG 221 CREATIVE WRITING I**3 CR (3-0)**

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. *Prerequisite: ENG 121 ("C" or better) OR instructor approval.* (Contact hours – 45)

ENG 222 CREATIVE WRITING II**3 CR (3-0)**

Provides continued development of written expression in such forms as poetry, fiction, and/or nonfiction writing. *Prerequisite: ENG 221 ("C" or better).* (Contact hours - 45)

Additional courses are available through Colorado Community College Online (CCC Online).

ENVIRONMENTAL SCIENCE**ENV 101 INTRO TO ENVIRONMENTAL SCIENCE 4 CR (3-2)**

Provides an introduction to the basic concepts of ecology and the relationship between environmental problems and biological systems. This course includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution and environmental protection. A holistic approach is used when analyzing how the foundations of natural sciences interconnect with the environment. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

EQUINE MANAGEMENT

(All EQM and EQT courses are a part of the Equine Management Program and cannot be taken as independent courses.)

EQM 101 STABLE OPERATIONS I**1 CR (0-10)**

Focuses on the routine daily care, grooming, feeding, stable sanitation, daily health, and feed records of horses. *Prerequisite: EQM or stall facility.* (Contact hours - 150)

EQM 102 STABLE OPERATIONS II**1 CR (0-10)**

Builds on EQM 101 and continues focus on the routine daily care, grooming, feeding, stable sanitation, daily health, and feed records of horses. *Prerequisite: EQM or stall facility.* (Contact hours - 150)

EQM 158 EQUINE REPRODUCTION**2 CR (2-0)**

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. (Contact hours - 30)

EQM 175 SPECIAL TOPICS**1-6 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours – 15– 90)

EQM 201 STABLE OPERATIONS III**1 CR (0-10)**

Familiarizes the student with the routine daily care, grooming, feeding, stable sanitation, daily health, and feed records of horses. *Prerequisite: EQM or stall facility.* (Contact hours - 150)

EQM 202 STABLE OPERATIONS IV**1 CR (0-10)**

Familiarizes the student with the routine daily care, grooming, feeding, stable sanitation, daily health, and feed records of horses. *Prerequisite: EQM or stall facility.* (Contact hours - 150)

EQM 210 EQUINE HEALTH**2 CR (2-0)**

Assists students in planning annual equine health programs. Introduces students to methods of prevention, recognition, and treatment of common equine diseases. (Contact hours - 30)

EQM 211 EQUINE HEALTH LAB**1 CR (0-2)**

Application of practical skills, methods, and techniques used to prevent and treat equine diseases and health problems. (Contact hours - 30)

EQM 275 SPECIAL TOPICS**1-6 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours – 15 – 90)

EQM 280 EQUINE INTERNSHIP**8 CR**

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. *Prerequisite: EQM major.* (Contact hours - 320)

EQM 285 INDEPENDENT STUDY**1-6 CR**

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. *Prerequisite: instructor approval.* (Contact hours - 15 - 90)

EQM 289 EQUINE MANAGEMENT CAPSTONE .5 CR (.5-0)

Covers information necessary for employment and job search skills. Students will receive instruction in resume writing and interviewing. Prerequisite: Sophomore Equine Students. (Contact hours - 8)

EQUINE TRAINING

EQT 101 INTRODUCTION TO HORSE TRAINING 5 CR (1-8)

Introduces handling and care of horses. Basics of grooming, hoof care, showing at halter, equitation, and horsemanship will be covered. Prerequisite: EQM Major. (Contact hours - 105)

EQT 102 BEGINNING COLT TRAINING 6 CR (0-10)

Covers advanced level of horsemanship involving lead changes, turnarounds, and rollbacks will be covered. Students that meet minimum skills requirements may continue into specialized areas of riding. Prerequisite: EQT 101 ("C" or better). (Contact hours - 135)

EQT 140 RANCH HORSE VERSATILITY 3 CR (1-3)

This is a riding intensive course designed to train the horse in the ranch horse versatility competitive events. Students will develop skills in the working cow horse, reining, ranch cutting, ranch trail, conformation, and ranch pleasure events. (Contact hours - 60)

EQT 201 INTERMEDIATE COLT TRAINING 6 CR (0-10)

Covers halter breaking weanlings. Students will also receive instruction in longing, driving, saddling, and riding the two year-old. Prerequisite: EQT 102 ("C" or better). (Contact hours - 135)

EQT 202 ADVANCED COLT TRAINING 6 CR (0-10)

Gives the student their final experience at starting and management of a young horse to meet the industry standards for which they are entering. Prerequisite: EQT 201 ("C" or better). (Contact hours - 135)

EQT 240 RANCH HORSE VERSATILITY II 3 CR (1-3)

Ranch Horse Versatility II is a continuation of Ranch Horse Versatility I. This is a riding intensive course designed to train the horse in the ranch horse versatility competitive events. Students will develop skills in the working cow horse, reining, ranch cutting, ranch trail, conformation, and ranch pleasure events. As a part of the course students will have the opportunity to travel and compete in industry competitive events. A focus of the course is to improve the level of individual skills and to gain experience in the show ring atmosphere. Prerequisite: EQT 140 ("C" or better). (Contact hours - 60)

ENGLISH AS A SECOND LANGUAGE

ESL

ESTHETICIAN

(All COS, EST, and NAT courses are a part of the Cosmetology Program and cannot be taken as independent courses)

EST 110 INTRO TO FACIALS & SKIN CARE 3 CR (1-3)

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. Prerequisite: COS 150 ("C" or better). (Contact hours - 60)

EST 111 INTERMEDIATE FACIALS & SKIN CARE 2 CR (0-3)

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 setting using models or customer service. Prerequisite: EST 110 ("C" or better). (Contact hours - 45)

EST 210 ADVANCED MASSAGE & SKIN CARE 2 CR (0-3)

Provides the student with advanced techniques in massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment. Instruction provided in specialized classes or in a supervised salon (clinical) setting. Student preparation for State Board Licensing Examination. Prerequisite: EST 111 ("C" or better).

EST 211 FACIAL MAKEUP 1 CR (0-1.5)

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. Prerequisite: EST 110 ("C" or better). (Contact hours - 22.5)

EST 212 HAIR REMOVAL 3 CR (1-3)

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. Prerequisite: EST 111 ("C" or better). (Contact hours - 60)

FIRE SCIENCE TECHNOLOGY

FST 100 FIREFIGHTER I 9 CR (6-4.5)

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. (Contact hours - 157.5)

FST 101 FIREFIGHTER II 3 CR (3-0)

Addresses the requirements necessary to perform at the second level of progression as identified in National Fire Protection Association (NFPA) 1001, Fire Fighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level II, standard. (Contact hours - 45)

FST 102 PRINCIPLES/EMERGENCY SERVICES 3 CR (3-0)

Provides overview to fire protection, career opportunities in fire protection and related fields, philosophy and history of fire protection/ service, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local government, laws and regulations affecting the fire service, fire service nomenclature, specific fire protection functions, basic fire chemistry and physics, introduction to fire protection systems, and introduction to fire strategy and tactics. (Contact hours - 45)

FST 103 FIRE BEHAVIOR & COMBUSTION 3 CR (3-0)

Explores the theories and fundamentals of how and why fires start, spread, and are controlled. (Contact hours - 45)

FST 105 BUILDING CONSTRUCTION FOR FIRE PROFESSIONALS 3 CR (3-0)

Provides the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The elements of consideration and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. (Contact hours - 45)

FST 106 FIRE PREVENTION 3 CR (3-0)

Provides fundamental information regarding the history and philosophy of fire prevention, organization, and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education. (Contact hours - 45)

FST 107 HAZMAT OPERATIONS (LEVEL I) 3 CR (3-0)

Introduces hazardous materials incidents, recognizing and identifying hazardous materials, planning response, implementing response procedures, decision making, and continued evaluation at the awareness and operation level. (Contact hours - 45)

FST 110 Job Placement and Assessment 3 CR (3-0)

Addresses all aspects of the Fire Service entrance examination process and especially emphasizes various components of the exam, including the written, physical abilities, and oral interview. The objective of this class is to help increase the entrance firefighter candidates chance of obtaining a career in the Fire Service. Provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. (Contact hours - 60)

FST 128 VEHICLE EXTRICATION TECHNICIAN 3 CR (3-0)

Training in this course represents the highest level of operation at the rescue scene involving vehicle extrication. Students shall be capable of hazard recognition, equipment use, and techniques necessary to operate and effectively supervise at incidents involving persons injured or entrapped in a vehicle or machinery. (Contact hours - 45)

FST 150 FIRE PREVENTION EDUCATION 3 CR (3-0)

Focuses on conducting, prevention, and education needs, assessment, targeting audiences, development and delivery of prevention and education programs. Includes methods of conducting fire prevention and safety inspections. (Contact hours - 45)

FST 170 CLINICAL I 1 CR

Offers the clinical practicum to apply the related fire science technology. (Contact hours - 15)

FST 175 SPECIAL TOPICS 1-12 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 15 - 90)

FST 201 INSTRUCTIONAL METHODOLOGY 3 CR (3-0)

Covers the role and responsibility of the fire service instructor. Includes oral communication skills, concepts of learning, planning and development of lesson plans, instructional materials and delivery methods, testing and evaluations, records and reports, and demonstration of instructional abilities. Fire Instructor I State Certificate is available. *Prerequisite: FST 100 AND FST 102 ("C" or better) OR instructor approval.* (Contact hours - 45)

FST 202 STRATEGY & TACTICS 3 CR (3-0)

Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground. *Prerequisites: FST 102, FST 104, AND FST 107 ("C" or better) OR instructor approval.* (Contact hours - 45)

FST 203 FIRE HYDRAULICS & WATER SUPPLY 4 CR (4-0)

Provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems.

FST 204 PRINCIPLES OF CODE ENFORCEMENT 3 CR (3-0)

To provide the students with the fundamental knowledge of the role of code enforcement in a comprehensive fire prevention program. *Prerequisites: FST 102, FST 104, AND FST 105 ("C" or better) OR instructor approval.* (Contact hours - 45)

FST 205 FIRE INVESTIGATION I 3 CR (3-0)

Provides the student with the fundamentals and technical knowledge needed for proper fire scene interpretations including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes. (Contact hours - 45)

FST 209 FIRE PROTECTION SYSTEMS 3 CR (3-0)

Provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection, and portable fire extinguishers. (Contact hours - 45)

FST 253 NATIONAL INCIDENT MANAGEMENT 3 CR (3-0)

Focuses on the National Incident Management System including fire ground management and resource management. Multi-agency coordination systems and organization preparedness for large scale emergencies, communication, and information are addressed. The course concludes with a review of the National Response Plan. (Contact hours - 45)

FST 254 HAZARDOUS MATERIALS TECHNICIAN 3 CR (3-0)

Focuses on techniques associated with hazardous materials mitigation, the use of monitoring devices, components of a mitigation teams, and command and control of hazardous materials incidents. (Contact hours - 45)

FST 259 WILDLAND FIREFIGHTING TACTICS 3 CR (3-0)

Focuses on management of uncontrolled fire burning, urban/wildland interface, strategy and tactics used in controlling wild land fires, prevention methods, and incident command practices. (Contact hours - 45)

FST 280 INTERNSHIP**1-12 CR**

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. (Contact hours - 15 - 60)

FIRE SCIENCE WILDLAND

FSW 100 S-190 INTRODUCTION TO WILDLAND**FIRE BEHAVIOR****1 CR**

Provides instruction in the primary environmental factors that affect the start and spread of wildfire and recognition of potentially hazardous situations. This course can be taught in conjunction with or prior to Firefighting Training S-130.

FSW 101 S-130 FIREFIGHTING TRAINING 2 CR

Provide entry-level firefighters skills. A version of the L-180, Human Factors on the Fire line, has been included as part of the course. Credit should be issued for both S-130 and L-180 upon completion of this course.

GEOGRAPHY

GEO 105 WORLD REGIONAL GEOGRAPHY 3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

GEO 106 HUMAN GEOGRAPHY 3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

GEO 111 PHYSICAL GEOGRAPHY: LANDFORMS**W/LAB****4 CR (3-2)**

Introduces the principles of landforms as a major aspect of our natural environment. (Contact hours - 75) State Guaranteed Transfer Course.

GEO 112 PHYSICAL GEOGRAPHY: WEATHER &**CLIMATE W/LAB****4 CR (3-2)**

Introduces the principles of meteorology, climatology, world vegetation patterns, and world regional climate classification. The course includes investigating the geographic factors which influence climate such as topography, location, elevation, winds, and latitude. (Contact hours - 75) State Guaranteed Transfer Course.

GEO 275 SPECIAL TOPICS**1-6 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 15 - 90)

Additional courses are available through Colorado Community College Online (CCC Online).

GEOLOGY

GEY 111 PHYSICAL GEOLOGY**4 CR (3-3)**

Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. *Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see p. 145). Co-requisite: CCR 94 and ENG 121.* State Guaranteed Transfer Course in the GT-SC1 category.

GEY 112 HISTORICAL GEOLOGY**4 CR (3-3)**

Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. *Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see p. 145). Co-requisite: CCR 94 and ENG 121.* State Guaranteed Transfer Course in the GT-SC1 category.

GEY 175 SPECIAL TOPICS**.25-3 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact Hours - 3.75 - 45)

Additional courses are available through Colorado Community College Online (CCC Online).

HISTORY

HIS 101 WESTERN CIVILIZATION:

ANTIQUITY TO 1650

3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 102 WESTERN CIVILIZATION:

1650 TO PRESENT

3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 111 THE WORLD: ANTIQUITY TO 1500

3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 112 THE WORLD: 1500 TO PRESENT

3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 175 SPECIAL TOPICS

1-5 CR

Focuses on the exploration of current topics, issues, and activities related to one or more aspects of history. (Contact hours - 5 - 75)

HIS 121 U.S. HISTORY TO RECONSTRUCTION

3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 122 U.S. HISTORY SINCE THE CIVIL WAR

3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 203 CIVIL WAR ERA AMERICAN HISTORY 3 CR (3-0)

Explores the causes, course, and consequences of the American Civil War, from the Colonial period to the 21st Century, in order to understand the multiple meanings of a transforming event in American history. Students will explore the meanings of the war as defined in many ways: national, sectional, racial, gender, constitutional, individual, social, intellectual, or moral. Students will closely examine four broad themes: the crisis of union and disunion in an expanding republic, slavery, race, and emancipation as national problem, personal experience, and social process, the experience of modern, total war for individuals and society, and the political and social challenges of Reconstruction. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 208 AMERICAN INDIAN HISTORY

3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 218 HISTORY-SCIENCE & TECH

3 CR (3-0)

Explores the complex relationship between scientific and technological developments and western society and culture. Focuses on the way social and cultural norms can impact scientific or technological progress, and vice-versa, especially in the period since the Scientific Revolution. (Contact hours - 45)

HIS 225 COLORADO HISTORY

3 CR (3-0)

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, the railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 235 HISTORY OF AMERICAN WEST

3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 236 U.S. HISTORY SINCE 1945

3 CR (3-0)

Focuses on the major political, economic, social, and cultural developments that have shaped modern America from 1945 to the present. (Contact hours - 45) State Guaranteed Transfer Course.

HIS 275 SPECIAL TOPICS

1-5 CR

Focuses on the exploration of current topics, issues, and activities related to one or more aspects of history. (Contact hours - 15 - 75)

Additional courses are available through Colorado Community College Online (CCC Online).

HONORS

HNR 100 HONORS SEMINAR

1 CR (1-0)

Develops skills in an interdisciplinary manner including: self-efficacy, college success, interdisciplinary connections, and critical and creative thinking. A primary goal is to develop a sense of community within the class. This course increases awareness of issues relating to diversity and leadership and explores techniques for successful honors academic performance. (Contact hours - 15)

HORTICULTURE

HLT 100 HORTICULTURE SCIENCE

4 CR (3-2)

Introduces students to the principles of the plant science as they relate to horticulture. The course emphasizes the application of plant sciences to the propagation, improvement, culture and utilization of horticultural plants.

HLT 260 PLANT PROPAGATION

4 CR (3-2)

Teaches seed and vegetative plant propagation techniques, the biology underlying modern plant propagation practices and their application in commercial plant production.

HUMAN PERFORMANCE AND EXERCISE

HPE 100 INTRODUCTION TO PHYSICAL EDUCATION & SPORT

2 CR (2-0)

Focuses on the field of physical education and sport. Includes trends, precedents, and their effects in the health and total wellness of those involved. (Contact hours - 30)

HPE 102 INTRODUCTION TO SPORTS MEDICINE

2 CR (2-0)

Introduces the field of sports medicine, career options, and presents issues within the field. Emphasizes athletic training. (Contact hours - 60)

HPE 130 ATHLETIC TRAINING PRACTICUM I

1-3 CR (0-6)

Provides the opportunity for students to observe and gain experience in the techniques used in an athletic training room. (Contact hours 15 – 45).

HPE 175 SPECIAL TOPICS

1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HPE 200 PERSPECTIVES IN PE & SPORT

3 CR (3-0)

This course discusses the breadth, scope and nature of the profession. It is an orientation to the history and philosophy of human performance and the factors that influence its evolution. Special consideration given to the history of sport from antiquity to the present, particularly in the Olympic Games. (Contact hours – 45)

HPE 230 ATHLETIC TRAINING PRACTICUM II

2-3 CR (2 to 3-0)

Provides the opportunity for students to gain advanced experience in the techniques used in an athletic training room. (Contact hours - 30 -45)

HPE 231 CARE & PREVENTION OF ATHLETIC INJURIES

3 CR (3-0)

Focuses on techniques in prevention, care, and basic rehabilitation of athletic injury. (Contact hours – 45)

HEALTH PROFESSIONAL

HPR 102 CPR FOR PROFESSIONALS

.5 CR (.5-0)

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. (Contact hours – 7.5)

HPR 108 DIETARY NUTRITION

1 CR (1-0)

Studies the basic nutritional principles in clinical practice in 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. (Contact hours - 15)

HPR 175 SPECIAL TOPICS

.25 to 6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 3.75 - 90)

HPR 178 MEDICAL TERMINOLOGY

2 CR (2-0)

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 major body systems, oncology, and psychiatry, as well as clinical laboratory and diagnostic procedures and imaging. Classroom structure provides accepted pronunciation of terms and relative use in the healthcare setting. (Contact hours – 30)

HPR 190 BASIC EKG INTERPRETATION

2 CR (2-0)

Provides instruction for interpretation of EKG strips, anatomy and physiology of the heart, and using three-lead monitoring as a guide. Twelve-lead EKG may be discussed. (Contact hours – 30)

HPR 217 KINESIOLOGY

4 CR (3-2)

Focuses on mechanical principles of kinematics, kinetics, muscle physiology, neurophysiology, and the interaction to produce function. Joint and muscle structure and function with application is main focus. (Contact hours - 75)

Additional courses are available through Colorado Community College Online (CCC Online).

HUMANITIES

HUM 103 INTRODUCTION TO FILM ART 3 CR (3-0)

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 a variety of genres and themes. The course incorporates the vocabulary of stylistic systems (for instance), cinematography and editing) and narrative systems (For instance, story structure and character motivation) as both relate to the kinds of meanings a film conveys. (Contact hours – 45) State Guaranteed Transfer Course.

HUM 115 WORLD MYTHOLOGY 3 CR (3-0)

Introduces students to the mythologies of various cultures. Common themes of the following: religion, philosophy, art history, theater, literature, music, cultural studies, and history. (Contact hours - 45) State Guaranteed Transfer Course.

HUM 121 HUMANITIES: EARLY CIVILIZATIONS 3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HUM 122 HUMANITIES: MEDIEVAL-MODERN 3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HUM 123 HUMANITIES: THE MODERN WORLD 3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

HUM 175 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours – 15 – 90)

HUM 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours – 15 – 90)

Additional courses are available through Colorado Community College Online (CCC Online).

HEALTH & WELLNESS

HWE 100 HUMAN NUTRITION 3 CR (3-0)

Introduces basic principles of nutrition with emphasis on personal nutrition. Satisfies nutrition requirement of students entering health care professions. (Contact hours - 45)

HWE 103 COMMUNITY FIRST AID & CPR 1 CR (1-0)

Prepares the student for certification in CPR and Basic First Aid. Skills will include basic life support, airway obstruction, control of bleeding, shock, and patient care for the unconscious. (Contact hours - 15)

HWE 111 HEALTH & FITNESS 3 CR (3-0)

Studies health and fitness in the U.S. today. The course will look at personal health issues, managing stress, nutrition, and healthy lifestyles. (Contact hours - 45)

HWE 117 MENTAL HEALTH FIRST AID 1 CR (1-0)

Train the public and first responders on the most common mental disorders and mental health crises. Train first responders in the basic action steps to assist with the mental health issue. This course is not for the trained Mental Health Professional. (Contact hours - 15)

HWE 124 FITNESS & WELLNESS 2 CR (2-0)

Provides information on fitness and wellness and to serve as a guide to design, implement, and evaluate a complete personal fitness and wellness program. (Contact hours - 30)

HWE 175 SPECIAL TOPICS .25-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HWE 237 EXERCISE, NUTRITION & BODY COMPOSITION 3 CR (3-0)

Discusses the concepts of improved performance in all fitness areas. Emphasis is placed upon updated information associated with nutrition and human performance. Measurement of body composition is used as it correlates to training and diet/exercise programs. (Contact hours - 45)

Additional courses are available through Colorado Community College Online (CCC Online).

INDUSTRIAL MAINTENANCE

IMA 100 INTRO TO INDUSTRIAL MAINTENANCE 3 CR (0-4.5)

Provides an overall perspective and foundation for the person entering the industrial maintenance field. The fundamentals of machine operations commonly utilized in the process and energy industry will be presented. Maintenance personnel duties and responsibilities, general maintenance procedures, basic maintenance tools and equipment, basic fastening and securing, and machine operating specifications will be covered. Emphasis will be placed upon the understanding of machine documentation. The student will be introduced to the logical process utilized in the diagnosis machinery and control system troubleshooting. Workplace safety will be stressed throughout the course. *Prerequisite: EIC 101 ("C" or better).* (Contact hours – 67.5)

IMA 120 INDUSTRIAL ROTATING EQUIPMENT 3 CR (0-4.5)

Explains the theory and operation of various types of pumps and compressors in common use in the process and energy supply industries. Mechanical power transmission systems including direct coupling and v-belt drives are studied. The principals involved in the operation of centrifugal and positive displacement pumps and compressors will be discussed, along with the function of various components in pumps and compressors, disassembly and reassembly of pumps, compressors and mechanical drives, and troubleshooting pumps and compressors. *Prerequisites: IMA 100 ("C" or better).* (Contact hours – 67.5)

IMA 150 INDUSTRIAL PROBLEM SOLVING METHODS 2 CR (0-3)

Provides the student with the methodology and skills to perform a clear, concise analysis of multi-faceted problems associated with complex equipment and systems or organization performance breakdowns or failures. Methodologies for developing, analyzing, and prioritizing solutions will be presented. Demonstration of skills will be required using actual problems or failures. *Prerequisites: CIS 118 ("C" or better).* (Contact hours - 45)

IMA 160 BASIC FLUID POWER 3 CR (0-4.5)

Provide an understanding of the fundamentals of fluid power, hydraulic transmission of force and energy, operation at the suction side of the pump, petroleum based hydraulic fluids, fire resistant hydraulic fluids, flow rates and velocity, properties of hydraulic fluids, and the function and construction of basic elements of a hydraulic or fluid power system. The course will cover hydraulic symbols and prints used in industry. (Contact hours – 67.5)

JOURNALISM

JOU 105 INTRODUCTION TO MASS MEDIA 3 CR (3-0)

Places the mass media in a historical and cultural perspective, considering the validity, integrity, and influence of the media in a democracy. (Contact hours - 45) State Guaranteed Transfer Course.

JOU 106 MEDIA NEWS AND REPORTING 3 CR (3-0)

Introduces news writing, reporting and interviewing with an emphasis on clarity, accuracy, timeliness and fairness. (Contact hours – 45)

JOU 111 PRINCIPLES OF ADVERTISING 3 CR (3-0)

Employs design concepts, principles, and practices for advertising management for the mass media. (Contact hours - 45)

Additional courses are available through Colorado Community College Online (CCC Online).

LITERATURE

LIT 115 INTRODUCTION TO LITERATURE I 3 CR (3-0)

Introduces students to fiction, poetry, and drama. Emphasizes active and responsive reading. (Contact hours - 45) State Guaranteed Transfer Course.

LIT 175 SPECIAL TOPICS 1-3 CR

Provides students with a vehicle to pursue in depth exploration of special topics of interest. (Contact hours - 15-45)

LIT 205 ETHNIC LITERATURE 3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

LIT 255 CHILDREN'S LITERATURE 3 CR (3-0)

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. (Contact hours - 45)

LIT 275 SPECIAL TOPICS 1-3 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 15-45)

Additional courses are available through Colorado Community College Online (CCC Online).

MANAGEMENT

MAN 128 HUMAN RELATIONS IN ORGANIZATIONS 3 CR (3-0)

(Core Course for AGS or AAS)

Explores the importance of effective communication in our personal lives as well as in the world of business. Practical business applications such as employee motivation, handling customer complaints, and effectively resolving conflict in the workplace will be a major part of the curriculum. (Contact hours - 45)

MAN 175 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue special topics of interest in business. The content of this course is designed on an as-needed basis to provide current, up-to-date information. (Contact hours - 15 - 90)

MAN 200 HUMAN RESOURCE MANAGEMENT I 3 CR (3-0)

Provides the student with a broad overview of the contemporary issues, theories, and principles used to effectively manage human resources. Topics include recruiting, hiring, compensation and benefits, training and development, employee relations, and legal issues. (Contact hours - 45)

MAN 205 EVENT PLANNING 3 CR (3-0)

Presents the components of meeting planning, organization, personnel, finances, site selection, transportation, program design, promotion, arranging exhibits, and evaluation. (Contact hours - 45)

MAN 215 ORGANIZATIONAL BEHAVIOR 3 CR (3-0)

Examines the behaviors of groups and individual members of organizations and how that behavior can be influenced. Course emphasis is on the tools managers use to achieve organizational effectiveness. (Contact hours - 45)

MAN 223 EVENT MANAGEMENT 3 CR (3-0)

Give students a comprehensive foundation to build a career in the vast spectrum of the events industry including real world analysis and frequent speakers from prominent event professionals. (Contact hours - 45)

MAN 226 PRINCIPLES OF MANAGEMENT 3 CR (3-0)

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. (Contact hours - 45)

MAN 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue special topics of interest in business. The content of this course is designed on an as needed basis to provide current, up-to-date information.

MANICURING TECHNICIAN

(See Nail Technician)

MARKETING

MAR 111 PRINCIPLES OF SALES 3 CR (3-0)

Enables the student to understand and develop proper sales techniques. and covers the role of selling in the market place. Areas of emphasis include behavioral considerations in the buying and selling process and sales techniques. *Prerequisite: BUS115 ("C" or better).* (Contact hours - 45)

MAR 187 COOPERATIVE EDUCATION/ INTERNSHIP 1-6 CR

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 CR (3-0)

Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion, distribution, and their applications to businesses and the individual consumer. (Contact hours - 45)

MAR 220 PRINCIPLES OF ADVERTISING 3 CR (3-0)

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. (Contact hours - 45)

MAR 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue special topics of interest in business. The content of this course is designed on an as needed basis to provide current, up-to-date information.

MAR 278 SEMINAR 1-6 CR

Provides students with an experiential learning opportunity. (Contact hours - 160 per enrollment)
Additional courses are available through Colorado Community College Online (CCC Online).

MATHEMATICS

MAT 50 QUANTITATIVE LITERACY 4 CR (4-0)

Develops number sense and critical thinking strategies, introduce algebraic thinking, and connect mathematics to real world applications. Topics in the course include ratios, proportions, percentages, measurement, linear relationships, properties of exponents, polynomials, factoring, and math learning strategies. This course prepares students for Math in Liberal Arts, Statistics, Integrated Math, and college level career math courses.
Prerequisite: This course has math placement requirements (see page 139). (Contact hours - 60)

MAT 55 ALGEBRAIC LITERACY 4 CR (4-0)

Develops algebraic skills necessary for manipulating expressions and solving equations. Topics in the course include radicals, complex numbers, polynomials, factoring, rational expressions, quadratic equations, absolute value equations and inequalities, systems of linear equations, related applications, and math learning strategies. This course prepares students for College Algebra and Finite Math.
Prerequisite: Successful completion of MAT 50 or 90 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 60)

MAT 80 MATH FOR LIBERAL ARTS LAB 2 CR

Supports skill development for students registered in MAT 120. Topics covered in this course include those defined in MAT 120 and/or any pre- requisite skills needed by the student. *Pre-requisite: This course has math placement requirements (see page 139). Paired with Math 120* (Contact hours - 22.5)

MAT 81 COLLEGE ALGEBRA LAB1**CR**

Supports skill development for students registered in MAT 121. Topics covered in this course include those defined in MAT 121 and/or any pre-requisite skills needed by the student. *Pre-requisite: This course has math placement requirements (see page 139). Paired with Math 121 (Contact hours - 22.5).*

MAT 85 Introduction to Statistics Lab**2 CR**

Supports skill development for students registered in MAT 135. Topics covered in this course include those defined in MAT 135 and/or any pre-requisite skills needed by the student. *Pre-requisite: This course has math placement requirements (see page 139). Paired with Math 135 (Contact hours - 22.5)*

MAT 102 SKILLED TRADES & INDUSTRIAL MATH 2 CR (2-0)

Provides a review of general mathematics, introductory algebra, and an opportunity to learn systems of measurement and methods of solving problems related to skilled trades and general industrial repair. Designed for students in the repair industry. Topics may include algebra, geometry, graphs, measurement, and conversion between various systems of measurement. *Prerequisite: Successful completion of MAT 30, 45, or 50 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 30)*

MAT 103 MATH FOR CLINICAL CALCULATIONS 3 CR (3-0)

Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements and methods of solving problems related to drug dosage and medication administration. *Prerequisite: Successful completion of MAT 50, ("C" or better) OR appropriate placement score (see page 139). (Contact hours – 45)*

MAT 107 CAREER MATH**3 CR (3-0)**

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. *Prerequisite: Successful completion of MAT 50 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 45)*

MAT 112 FINANCIAL MATHEMATICS**3 CR (3-0)**

Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization and investments. *Prerequisite: Successful completion of MAT 50 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 45)*

MAT 120 MATH FOR LIBERAL ARTS**4 CR (4-0)**

Highlights connections between mathematics and the society in which we live and is intended for liberal arts majors. Topics include set theory and logic, mathematical modeling, probability and statistical methods and consumer mathematics. This is a statewide Guaranteed Transfer Course in the GT-MA1 category. *Prerequisite: Successful completion of MAT 50 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 60) State Guaranteed Transfer Course. AA & AGS Degrees only.*

MAT 121 COLLEGE ALGEBRA**4 CR (4-0)**

Focuses on a variety of functions and exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering and Math (STEM) pathways.

This is a statewide Guaranteed Transfer course in the GT-MA1 category. *Prerequisite: Successful completion of MAT 55, ("C" or higher) OR appropriate placement score (see page 139). (Contact hours - 60) State Guaranteed Transfer Course.*

MAT 122 COLLEGE TRIGONOMETRY**3 CR (3-0)**

Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. *Prerequisite: Successful completion of MAT 121 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 45) State Guaranteed Transfer Course.*

MAT 125 SURVEY OF CALCULUS**4 CR (4-0)**

Includes derivatives, integrals, and their applications with attention restricted to algebraic, exponential, and logarithmic functions for business, life science, and/or social science majors. *Prerequisite: Successful completion of MAT 121 or MAT 123 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 60) State Guaranteed Transfer Course. AA & AGS Degrees only.*

MAT 135 INTRODUCTION TO STATISTICS**3 CR (3-0)**

Includes data presentation and summarization, introduction to probability concepts and distributions, statistical inference, estimation, hypothesis testing, comparison of populations, correlation, and regression. *Prerequisite: Successful completion of MAT 50 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 45) State Guaranteed Transfer Course. AA & AGS Degrees only.*

MAT 155 INTEGRATED MATH I**3 CR (3-0)**

Engages students in the concepts underlying elementary school mathematics. The course emphasizes critical thinking and applications. Topics include the structure of number systems, an analysis of numerical operations, set properties, numerical and geometric patterns, and a variety of problem solving skills. *Prerequisite: Successful completion of MAT 50 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 45)*

MAT 156 INTEGRATED MATH II**3 CR (3-0)**

Furtheres MAT 155 concepts and 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. *Prerequisite: Successful completion of MAT 155 ("C" or better). (Contact hours - 45)*

MAT 166 PRE-CALCULUS**5 CR (5-0)**

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, trigonometry identities and equations, conic sections, polar coordinates, and parametric equations. *Prerequisite: Successful completion of MAT 121 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 75)

MAT 175 SPECIAL TOPICS**1-3 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MAT 201 CALCULUS I**5 CR (5-0)**

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.

Prerequisites: Successful completion of MAT 121 and 122 or MAT 121 and 166 ("C" or better) OR appropriate placement score (see page 139). (Contact hours - 75) State Guaranteed Transfer Course.

MAT 202 CALCULUS II**5 CR (5-0)**

Continues the study of single variable calculus, which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category.

Prerequisite: MAT 201 ("C" or better) OR instructor approval. (Contact hours - 75)

MAT 203 CALCULUS III**4 CR (4-0)**

Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. *Prerequisite: MAT 202 ("C" or better).* (Contact hours - 60)

MAT 261 DIFFERENTIAL EQUATIONS WITH ENGINEERING APPLICATION: MA1**4 CR (4-0)**

Introduces ordinary differential equations. Topics include first, second and higher order differential equations, series methods, approximations, systems of differential equations and Laplace transforms with an additional emphasis on engineering applications and problem solving. Appropriate technology related to the mathematical field may be used as a component of the course. This is a statewide Guaranteed Transfer course in the GT-MA1 category. *Prerequisite: MAT 203 ("C" or better).* (Contact hours - 60) *Additional courses are available through Colorado Community College Online (CCC Online).*

MULTIMEDIA GRAPHIC DESIGN**MGD 104 VIDEOGRAPHY****3 CR (3-0)**

Offers an introduction to the principles and techniques of videotape production, including camera operation, basic script writing, lighting, sound and basic digital editing. Detailed examination of the pre-production, production and post-production processes, as well as aesthetics, will be included. (Contact hours - 45)

MGD 111 ADOBE PHOTOSHOP I**3 CR (3-0)**

Concentrates on the high-end capabilities of a raster photo-editing software as an illustration, design, and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics, and videos. (Contact hours - 45)

MGD 112 ADOBE ILLUSTRATOR I**3 CR (3-0)**

Acquaints students with the processes of a vector drawing program on the computer. Students learn how to use the tools to create digital artwork that can be used in web design, print media, and digital screen design. (Contact hours - 45)

MGD 114 ADOBE INDESIGN**3 CR (3-0)**

Introduces students to InDesign, a page layout program which integrates seamlessly with other Adobe design programs. InDesign delivers creative freedom and productivity to DTP. Class discussions and independent projects supplement hands-on classroom work. (Contact hours - 45)

MGD 133 GRAPHIC DESIGN I**3 CR (3-0)**

Focuses upon the study of design layout and conceptual elements concerning graphic design projects such as posters, advertisements, logos, and brochures. (Contact hours - 45)

MGD 141 WEB DESIGN I: DREAMWEAVER**3 CR (3-0)**

Introduces web site planning, design, and creation using industry-standards-based web site development tools. Screen-based color theory, web aesthetics, use of graphics editors, and intuitive interface design are explored. (Contact hours - 45)

MGD 211 ADOBE PHOTOSHOP II**3 CR (3-0)**

Develops and reinforces image composition techniques learned in Adobe Photoshop I, MGD 111. Fundamentals are continuously reinforced as new design techniques are introduced. (Contact hours - 45)

MILLWRIGHT - WIND TECHNOLOGY**MIL 101 LIFTING DEVICES****1 CR (0-1.5)**

Introduces the student to the types of rigging/ lifting devices used in industry. Skills include the correct use of slings and common rigging hardware including safe loading practices and the use of ANSI hand signals. *Prerequisite: EIC 101 ("C" or better).* (Contact hours - 22.5)

MUSIC

MUS 100 FUNDAMENTALS OF MUSIC THEORY 3 CR (3-0)

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. (Contact hours - 45)

MUS 106 SONGWRITING 3 CR (3-0)

Examines the various processes and styles of songwriting and offers techniques and ideas for creating songs ranging from functional to original. You will explore the common factors in all styles of songwriting and use them to bring out creative song ideas whether you have written songs before or have just always wanted to see if you could. A basic knowledge of music reading for any instrument and elementary music theory is recommended, but not required. (Contact hours - 45)

MUS 110 MUSIC THEORY I 3 CR (3-0)

Presents music fundamentals, diatonic four-part harmony, analysis, ear training, and keyboard harmony. For music majors transferring to a 4-year program. *Prerequisite: MUS 100 ("C" or better) OR instructor approval.* (Contact hours - 45)

MUS 111 MUSIC THEORY II 3 CR (3-0)

Presents chromatic four-part harmony, analysis, ear training, and keyboard harmony. *Prerequisites: MUS 110 & MUS 112 ("C" or better).* (Contact hours - 45)

MUS 112 EAR TRAINING/SIGHT-SIGNING I LAB 1 CR (1-0)

Presents exercises in sight-singing with melodic and rhythmic dictation. *Prerequisite: instructor approval. Co-requisite: MUS 110.* (Contact hours - 15)

MUS 113 EAR TRAINING/SIGHT-SIGNING II LAB 1 CR (1-0)

Presents exercises in sight-singing with melodic and rhythmic dictation. *Prerequisite: MUS 112 ("C" or better). Co-requisite: MUS 111* (Contact hours - 15)

MUS 120 MUSIC APPRECIATION 3 CR (3-0)

Covers the basic materials of music, musical forms, media, genres, and musical periods. Emphasizes the development of tools for intelligent listening and appreciation. (Contact hours - 45) State Guaranteed Transfer Course.

MUS 121 MUSIC HISTORY: MEDIEVAL TO CLASSICAL 3 CR (0-6)

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. (Contact hours - 45) State Guaranteed Transfer Course.

MUS 122 MUSIC HISTORY: ROMANTIC TO PRESENT 3 CR (0-6)

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. (Contact hours - 45) State Guarantee Transfer Course.

MUS 123 STUDY OF WORLD MUSIC 3 CR (3-0)

Provides an overview of non-Western music from around the world as well as provides basic listening skills and the historical/cultural context for a variety of world music styles to enable an understanding and appreciation of non- Western musical expression. (Contact hours - 45) State Guaranteed Transfer Course.

MUS 125 HISTORY OF JAZZ 3 CR (0-6)

Provides a survey of the basic materials of music and the forms, media, genres, historical, and cultural style periods of jazz. It emphasizes the development of tools for intelligent listening and appreciation. (Contact hours - 45) State Guaranteed Transfer Course.

MUS 127 MUSIC IN FILM 3 CR (0-6)

Provides an overview of cinema music from the origins of film to the present. This course covers basic listening skills, basics of how music is used in film, and a historical/cultural context for Western and world cinematic styles to enable an understanding and appreciation of musical expression in film. (Contact hours - 45)

MUS 131 MUSIC CLASS I: PIANO 2 CR (0-4)

Applies the fundamentals of music to the voice or specific musical instruments. This course also introduces basic techniques, repertoire, and sight-reading. First year, first term. (Contact hours - 30)

MUS 141 PRIVATE INSTRUCTION I 1-2 CR (0-4)

One credit primarily for non-music majors. Two credits for music majors planning to transfer to four-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 one credit. Regular attendance at, and participation in, student performances is required for two credits. First year, first term. *Prerequisite: instructor approval.* (Contact hours - 7.5 - 15)

MUS 142 PRIVATE INSTRUCTION II 1-2 CR (0-4)

One credit primarily for non-music majors. Two credits for music majors planning to transfer to four-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 one credit. Regular attendance at and participation in student performances is required for two credits. First year, second term. *Prerequisite: instructor approval.* (Contact hours - 7.5 - 15)

MUS 143 PRIVATE INSTRUCTION III 1-2 CR (0-4)

One credit primarily for non-music majors. Two credits for music majors planning to transfer to four-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 one credit. Regular attendance at, and participation in, student performances is required for two credits. First year, third term. *Prerequisite: instructor approval.* (Contact hours - 7.5 - 15)

MUS 144 PRIVATE INSTRUCTION IV **1-2 CR (0-4)**
One credit primarily for non-music majors. Two credits for music majors planning to transfer to four-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 one credit. Regular attendance at, and participation in, student performances is required for two credits. First year, fourth term. May be repeated for credit more than once per individual institution policy. *Prerequisite: instructor approval.* (Contact hours - 7.5 - 15)

MUS 151 ENSEMBLE I **1 CR (0-3)**
First year, first term. Rehearses and performs various types of musical literature. *Prerequisite: instructor approval.* (Contact hours - 45)

MUS 152 ENSEMBLE II **1 CR (0-3)**
Rehearses and performs various types of musical literature. First year, second term. *Prerequisite: instructor approval.* (Contact hours - 45)

MUS 153 ENSEMBLE III **1 CR (0-3)**
Rehearses and performs various types of musical literature. First year, third term. *Prerequisite: instructor approval.* (Contact hours - 45)

MUS 154 ENSEMBLE IV **1 CR (0-3)**
Rehearses and performs various types of musical literature. First year, fourth term. *Prerequisite: instructor approval.* (Contact hours - 45)

MUS 161 MUSIC TECHNOLOGY I **3 CR (3-0)**
Considers in-depth music engraving applications through course projects designed to demonstrate engraving skills in a variety of score styles, arranging, part extraction, arranging, and scanning techniques. Project-oriented course covers current music notation/engraving software. (Contact hours - 45)

MUS 163 MUSIC AUDIO PRODUCTION I **3 CR (3-0)**
Designed to give music majors and students with a strong interest in music a basic understanding of the Music Production process. This includes the basic knowledge of audio/music production, the fundamentals of sound and microphone, digital and analog technology, recording, and mixing. (Contact hours - 45)

MUS 164 MUSIC AUDIO PRODUCTION II **3 CR (3-0)**
Designed to build on the concepts of MUS 163, this class will be more project oriented with emphasis on using the techniques discussed in MUS 163. An emphasis on critical listening through each phase of the recording process will be made. (Contact hours - 45)

MUS 167 MUSIC BUSINESS I **3 CR (3-0)**
Designed to give music students, or those students with a strong interest in business and music, a complete overview and in-depth examination of the current, historic, and projected business practices in the music industry. Designed to give music majors and students with a strong interest in music a basic understanding of the Music Production process. (Contact hours - 45)

MUS 168 AUDIO: POST PRODUCTION I **3 CR (3-0)**
Explores the steps in audio production following initial sound capture and overdubbing of sound. Key concepts include sound design, mixing, and addition of effects. Integration of music with picture is also discussed and key concepts such as automatic dialogue replacement, Foley, score, and voiceover recording are covered. (Contact hours - 45)

MUS 175 SPECIAL TOPICS **1-6 CR**
Provides students with a vehicle to pursue in-depth exploration of special topics of interest. *Prerequisite: instructor approval.*

MUS 185 INDEPENDENT STUDY **1-6 CR**
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. *Prerequisite: instructor approval.*

MUS 210 MUSIC THEORY III **3 CR (3-0)**
Continues study of four-part music including extended harmonic progressions of ninth, eleventh, thirteenth chords, extended alteration, non-chord tones, modulation, and compositions. *Prerequisite: MUS 111 and MUS 113.* (Contact Hours - 45)

MUS 211 MUSIC THEORY IV **3 CR (3-0)**
Offers a continuation of chromatic harmony, analysis, ear training, and keyboard harmony. New topics will include Impressionism and 20th Century styles of composition. *Prerequisite: MUS 210 and MUS 212.* (Contact Hours - 45)

MUS 212 ADV EAR-TRAINING/ SIGHT-SINGING I LAB **1 CR (1-0)**
Presents modulating and chromatic exercises in sight singing and dictation. Dictation includes four-part writing. *Co-requisite: MUS 210.* (Contact Hours - 15)

MUS 213 ADV EAR-TRAINING/ SIGHT-SINGING II LAB **1 CR (1-0)**
Presents modulating and chromatic exercises in sight singing and dictation. Dictation includes four-part writing. *Prerequisite: MUS 212 or instructor approval.* (Contact Hours - 15)

MUS 241 PRIVATE INSTRUCTION I **2 CR (0-4)**
One credit primarily for non-music majors. Two credits for music majors planning to transfer to four-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 one credit. Regular attendance at, and participation in, student performances is required for two credits. Second year, first term. *Prerequisites: Class instruction OR instructor approval.* (Contact Hours - 7.5 - 15)

MUS 242 PRIVATE INSTRUCTION II **2 CR (0-4)**
One credit primarily for non-music majors. Two credits for music majors planning to transfer to four-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 one credit. Regular attendance at, and participation in, student performances is required for two credits. Second year, second term. *Prerequisites: Class instruction or instructor approval.* (Contact Hours - 7.5 - 15)

MUS 243 PRIVATE INSTRUCTION III 2 CR (0-4)

One credit primarily for non-music majors. Two credits for music majors planning to transfer to four-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 one credit. Regular attendance at, and participation in, student performances is required for two credits. Second year, third term. *Prerequisites: Class instruction or instructor approval.* (Contact Hours - 7.5 - 15)

MUS 244 PRIVATE INSTRUCTION IV 2 CR (0-4)

One credit primarily for non-music majors. Two credits for music majors planning to transfer to four-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 one credit. Regular attendance at, and participation in, student performances is required for two credits. Second year, fourth term. May be repeated for credit more than once per individual institution policy. *Prerequisites: Class instruction or instructor approval.* (Contact Hours - 7.5- 15)

MUS 251 ENSEMBLE I 1 CR (0-3)

Rehearses and performs various types of musical literature. Second year, first term. *Prerequisite: instructor approval.* (Contact Hours - 45)

MUS 252 ENSEMBLE II 1 CR (0-3)

Rehearses and performs various types of musical literature. Second year, second term. *Prerequisite: instructor approval.* (Contact Hours - 45)

MUS 253 ENSEMBLE III 1 CR (0-3)

Rehearses and performs various types of musical literature. Second year, third term. *Prerequisite: instructor approval.* (Contact Hours - 45)

MUS 254 ENSEMBLE IV 1 CR (0-3)

Rehearses and performs various types of musical literature. Second year, fourth term. *Prerequisite: instructor approval.* (Contact Hours - 45)

MUS 265 LIVE AUDIO RECORDING 3 CR (3-0)

Teaches the concepts and technical skills of live sound reinforcement. Topics include basic audio concepts, the operation and interconnection of a sound system, signal processing and live sound recording. Students will participate in special class projects and live sound sessions. (Contact hours – 45)

MUS 275 SPECIAL TOPICS 1-6 CR

Covers specific topics in music. This course is offered as needed for credit appropriate to the topic and each offering includes a description of the topic(s). *Prerequisite: instructor approval.*

MUS 276 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. *Prerequisite: instructor approval.*

MUS 285 INDEPENDENT STUDIES 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. *Prerequisite: instructor approval.*

Additional courses are available through Colorado Community College Online (CCC Online).

NAIL TECHNICIAN

(All COS, EST and NAT courses are a part of the Cosmetology Program and cannot be taken as independent courses.)

NAT 110 INTRO TO MANICURES & PEDICURES 3 CR (1-3)

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 in a classroom or lab setting using models or other techniques. *Prerequisite: COS 150 ("C" or better).* (Contact hours - 60)

NAT 111 INTERMEDIATE MANICURES & PEDICURES 2 CR (0-3)

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 setting using models or customer service. Proper sanitation and sterilization as it pertains to all aspect of manicures, pedicures, and nail art is taught. *Prerequisite: NAT 110 ("C" or better).* (Contact hours - 45)

NAT 210 ADVANCED MANICURES & PEDICURES 2 CR (0-3)

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 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 setting using models or customer service. *Prerequisite: NAT 111 ("C" or better).* (Contact hours - 45).

NAT 211 APPLICATION OF ARTIFICIAL NAILS 5 CR (1-6)

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. *Prerequisite: COS 160 ("C" or better).* (Contact hours - 105).

NAT 290 ADVANCED NAIL TECHNICIAN STUDIES 1 CR (7.5-11.5)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact Hours - 19)

NURSE AIDE

NUA 101 CERTIFIED NURSING AIDE HEALTH CARE SKILLS

4 CR (4-0)

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 of asepsis, OSHA, and HIPAA regulations. Ethical behaviors, cultural sensitivity, and principles of mental health will be addressed as well as patient/resident rights. (Contact hours - 64)

NUA 102 CERTIFICATION EXAM PREP

0.5 CR (0-0.5)

Helps prepare the student for the National Nurse Aide Assessment Program (NNAAP) examination. (Contact hours – 15)

NUA 170 NURSE AIDE CLINICAL EXPERIENCE

1 CR (0-1)

Applies knowledge gained from NUA 101 to patient care. *Prerequisite: satisfactory progress in NUA 101.* (Contact hours - 32)

NURSING – PRACTICAL

NUR 106 MED SURG NURSING CONCEPTS

7 CR (3.4-0.3-3.3)

NUR 106 is the first medical/surgical nursing course. Building on NUR 109, 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. *Prerequisite: Successful completion of first semester of the ADN program. Satisfactory completion of BIO 204 Microbiology, MAT 103 Math for Clinical Calculations or higher-level math course, and social science elective. Student must also have completed or be enrolled in BIO 216 Pathophysiology. Successful completion of preceding required program course work.* (Theory: 3.4 cr/51 contact hours, Lab: 0.3 cr/13.5 contact hours, Clinical: 3.3 cr/148.5 contact hours)

NUR 109 FUNDAMENTALS OF NURSING

6 CR (2-2-2)

NUR 109 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, 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. *Prerequisite: Acceptance into ADN program.* (Theory: 2 cr/30 contact hours, Lab: 2 cr/90 contact hours, Clinical: 2 cr/90 contact hours)

NUR 112 BASIC CONCEPTS OF PHARMACOLOGY

2 CR (2-0-0)

NUR 112 is an 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 variation encountered when administering medications to diverse patient populations across the lifespan. *Prerequisite: Acceptance into ADN program.* (Theory: 2 cr/30 contact hours)

NUR 150 MATERNAL CHILD NURSING

6 CR (3.3-0.7-2)

NUR 150 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. *Prerequisite: Satisfactory completion of first semester of the ADN program. Satisfactory completion of BIO 204 Microbiology, MAT 103 Math for Clinical Calculations or higher level math course, and social science elective. Student must also have completed or be enrolled in BIO 216 Pathophysiology. Successful completion of preceding required program course work.* (Theory: 3.3 CR/49.5 contact hours, Lab: 0.7 cr/31.5 contact hours, Clinical: 2 cr/90 contact hours)

NUR 169 TRANSITION INTO PRACTICAL NURSING

4 CR (2-0-2)

NUR 169 facilitates the transition into the role of the practical nurse with emphasis on distinguishing the defined practical nurse 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. *Prerequisite: Successful completion of the first year of the ADN course work.* (Theory: 2 cr/30 contact hours, Clinical: 2 cr/90 contact hours)

Additional courses are available through Colorado Community College Online (CCC Online)

NURSING - ASSOCIATE DEGREE

NUR106 MEDICAL SURGICAL NURSING

CONCEPTS

7 CR (3.4-0.3-3.3)

NUR 106 is the first medical/surgical nursing course. Building on NUR 109, 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. *Prerequisite: Successful completion of first semester of the ADN program. Satisfactory completion of BIO 204 Microbiology, MAT 103 Math for Clinical Calculations or higher level math course, and social science elective. Student must also have completed or be enrolled in BIO 216 Pathophysiology. Successful completion of preceding required program course work.* (Theory: 3.4 cr/51 contact hours, Lab: 0.3 cr/13.5 contact hours, Clinical: 3.3 cr/148.5 contact hours)

NUR 109 FUNDAMENTALS OF NURSING

6 CR (2-2-2)

NUR 109 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 member 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. *Prerequisite: Acceptance into ADN program.* (Theory: 2 cr/30 contact hours, Lab: 2 cr/90 contact hours, Clinical: 2 cr/90 contact hours)

NUR 112 BASIC CONCEPTS OF

PHARMACOLOGY

2 CR (2-0-0)

NUR 112 is an 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 variation encountered when administering medications to diverse patient populations across the lifespan. *Prerequisite: Acceptance into ADN program.* (Theory: 2 cr/30 contact hours)

NUR 150 MATERNAL CHILD NURSING

6 CR (3.3-0.7-2)

NUR 150 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.

Prerequisite: Satisfactory completion of first semester of the ADN program. Satisfactory completion of BIO 204 Microbiology, MAT 103

Math for Clinical Calculations or higher level math course, and social science elective. Student must also have completed or be enrolled in BIO 216

Pathophysiology. Successful completion of preceding required program course work. (Theory: 3.3 cr/49.5 contact hours, Lab: 0.7 cr/31.5 contact hours, Clinical: 2 cr/90 contact hours)

NUR 169 TRANSITION INTO PRACTICAL

NURSING

4 CR (2-0-2)

Facilitates the transition into the role of the practical nurse with emphasis on distinguishing the defined practical nurse 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. (Theory 2 cr/30 contact hours, Clinical 2 cr/90 contact hours) NUR 169 is only required for those who want to be eligible to take the NCLEX-PN (State Board Exam) to become licensed practical nurse.

NUR 189 TRANSITION FROM LPN TO ADN

3 CR (2-0.5-0.5)

NUR 189 facilitates transition of the LPN to new roles and responsibilities of the ADN, the nursing process, critical thinking, legal and ethical issues in nursing practice, and the nursing care of childbearing families and pediatric clients. Application of knowledge and skills occurs in the laboratory and maternal/child and pediatric clinical settings. *Prerequisite: Must be a LPN.* (Theory: 2 CR/30 contact hours; Lab: 0.5/22.5 contact hours, Clinical: 0.5 CR/22.5 contact hours.) The clinical focus will be the care of the pediatric and obstetric client.

NUR 189 is required for those LPNs who want to be admitted for 2nd year of nursing program.

NUR 206 ADVANCED CONCEPTS OF MED-SURG

NURSING I

6.5 CR (3-0.5-3)

NUR 206 builds on NUR 106 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. *Prerequisite: Successful completion of the first year of ADN course work to include successful completion of BIO 216 Pathophysiology, BIO 204 Microbiology, MAT 103 Math for Clinical Calculations or higher level math course, and 3 credits of social science elective.* (Theory: 3 CR/45 contact hours; Lab: .5 CR/22.5 contact hours; Clinical: 3 CR/135 contact hours.)

NUR 211 PSYCH MENTAL HEALTH NURSING 4 CR (2.7-0-1.3)

NUR 211 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 psychiatric clinical conditions/disorders. *Prerequisite: Successful completion of the first year of ADN course work to include successful completion of BIO 216 Pathophysiology, BIO 204 Microbiology, MAT 103 Math for Clinical Calculations or higher level math course, and 3 credits of social science elective.* (Theory: 2.7 CR/40.5 contact hours, Clinical: 1.3 CR/58.5 contact hrs.)

NUR 212 PHARMACOLOGY II 2 CR (2-0)

NUR 212 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. *Prerequisite: Successful completion of the first year of ADN course work to include successful completion of BIO 216 Pathophysiology, BIO 204 Microbiology, MAT 103 Math for Clinical Calculations or higher level math course, and 3 credits of social science elective.* *Successful completion of preceding required program course work.* (Theory 2 CR/30 contact hours.)

NUR 216 ADV CONCEPTS MED- SURG NURSING II 5 CR (2.3-0-2.7)

NUR 216 is 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. *Prerequisite: Successful completion of preceding required program course work.* (Theory: 2.3 cr/34.5 contact hrs; Clinical: 2.7 cr/121.5 contact hrs.)

NUR 230 TRANSITION TO PROFESSIONAL NURSING 4 CR (1.6-0-2.4)

NUR 230 is 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 *Prerequisite: Successful completion of preceding required program course work.* (Theory: 1.6 cr/24 contact hrs; Clinical: 2.4 cr/108 contact hrs.)

PHYSICAL EDUCATION**PED 101 CONDITIONING LAB 1 CR (0-2)**

Offers an independent self-paced format of conditioning exercises to meet individual needs. Emphasizes the value of lifetime fitness and its contribution to achieving personal health and wellness. Students utilize cardiorespiratory, muscular strength, and endurance exercises to promote positive changes in health-related fitness components. (Contact hours - 30)

PED 102 WEIGHT TRAINING I 1 CR (0-2)

Offers basic instruction and practice in weight training. Students utilize weight training equipment in accordance to their abilities and goals. Emphasizes weight training equipment orientation, correct lifting techniques, and basic program design for men and women. (Contact hours - 30)

PED 103 WEIGHT TRAINING II 2 CR (0-2)

Offers guided instruction and independent practice in weight training for men and women. Students practice various weight training techniques in accordance with their abilities. Emphasizes physiological considerations, equipment orientation, correct lifting techniques, program design, and nutrition. (Contact hours - 60)

PED 104 CROSS TRAINING 1 CR (0-2)

Introduces basic cross-training techniques designed to improve physical work capacity of an individual. Enables the student to gain an understanding of the basic principles of cross training, the effects cross training has upon the body's energy systems and muscles, program design and terminology. (Contact hours - 30)

PED 106 FIRE ACADEMY FITNESS 2.5 CR (1-1.5)

Focuses on Basic Fire Academy students who are interested in improving total fitness. Includes an individual fitness evaluation, computerized analysis of results and a prescribed exercise program. Emphasizes improving cardiovascular fitness, muscular strength, muscular endurance and addressing any fitness deficiencies revealed in the initial testing. (Contact hours – 75)

PED 140 BODY TONING & SCULPTING 1 CR (0-2)

Introduces exercise techniques to improve overall physical fitness. Emphasizes the interaction between cardiovascular conditioning, muscular strength and endurance, flexibility, and program design integrated into an aerobic format. Focuses on blending together different combinations and sequences of exercises while conditioning the entire body. Students exercise using various types of resistance equipment. (Contact hours - 30)

PED 143 YOGA I 1 CR (0-2)

Offers a guided instruction in yoga. Students practice yoga according to their individual fitness levels and abilities. Emphasizes enhancing general health and well-being through the performance of yoga strength, flexibility, balance, and relaxation techniques and exercises. (Contact hours - 30)

PED 144 YOGA II 1 CR (0-2)

Continues to build on the concepts of basic yoga. Increases awareness of yoga including physical and mental benefits. (Contact hours - 30)

PED 151 WALKING & JOGGING 1 CR (0-2)

Enables the student to understand the values in walking and jogging. Safety precautions and emphasis on personal programs are emphasized. (Contact hours - 30)

PED 175 SPECIAL TOPICS 1 CR (0-2)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours - 30)

PED 208 TENNIS I 1 CR (0-2)

Introduces tennis and focuses on improving the skill level of the student. Emphasizes the elements of tennis including the rules of the game, groundstrokes, serving, the various shots, singles and doubles play and strategies. (Contact hours - 30)

PED 211 BOWLING 1 CR (0-2)

Introduces bowling fundamentals to improve the student's skill level. The primary emphasis is on teaching the student the elements of bowling, rules and regulations, footwork, courtesies, delivery, selection of ball, scoring, and team and individual competition. (Contact hours - 30)

PED 221 DYNAMIC WORKOUT

Designed for those who want to increase fitness and improve muscle tone through proper exercise techniques using mat work. Body alignment, breathing, and work on the abdominals, hips, and thighs will be emphasized. (Contact hours - 30)

PED 237 VARSITY SPORTS 1 CR (0-5)

GOLF
VOLLEYBALL
BASKETBALL - MEN
BASKETBALL - WOMEN
BASEBALL
SOCCER - MEN
SOCCER - WOMEN
SOFTBALL
WRESTLING

Allows the student-athletes an opportunity to participate in a competitive varsity sports program. (Contact hours - 75)

PHILOSOPHY

PHI 111 INTRODUCTION TO PHILOSOPHY 3 CR (3-0)

Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: The human condition, logic, reality, knowledge, freedom, history, ethics and religion. *Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Co-requisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guaranteed Transfer Course.

PHI 112 ETHICS 3 CR (3-0)

Examines human life, experience, and thought in order to discover and develop the principles and values for pursuing a more fulfilled existence.

This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* *Co-requisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guaranteed Transfer Course.

PHI 113 LOGIC 3 CR (3-0)

Studies effective thinking using language-oriented logic. This course provides tools and develops skills for official thinking and the formal analysis of arguments. It emphasizes the development of decision-making and problem-solving. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* *Co-requisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guaranteed Transfer Course.

PHI 114 COMPARATIVE RELIGION 3 CR (3-0)

Introduces the major religions of the Eastern and Western world. Covers Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity and Islam. Utilizes methods of religious studies to understand the historical development of each religious tradition. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* *Co-requisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guaranteed Transfer Course.

PHI 115 WORLD RELIGIONS – WEST 3 CR (3-0)

Introduces the student to the common and different concepts predominant in the major world religions. Includes sociological, political, psychological, and philosophical aspects of a variety of belief systems. Focuses on the concept of religion as a cultural system and a way that people make sense of a complex world. Particular emphasis is placed on how myths, legends, and folk tales reveal religious concerns. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* *Co-requisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guaranteed Transfer Course.

PHI 116 WORLD RELIGIONS – EAST 3 CR (3-0)

Emphasizes the diversity and richness of Eastern religions within a cross-cultural context. Concepts such as fate, reincarnation, enlightenment, and morality are analyzed. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* *Co-requisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guaranteed Transfer Course.

PHI 175 SPECIAL TOPICS 1-6 CR (0-0)

Consists of specially offered courses as a response to interest or need. *Prerequisite: instructor approval.* (Contact hours - 45)

PHI 205 BUSINESS ETHICS**3 CR (3-0)**

Examines philosophical theories about ethics and relevant subsidiary theories about the nature of justice in order to gather ethical decision-making criteria. Such criteria will be applied through logical argumentation to various moral issues and challenges in today's business environment. Issues covered will include economic distribution, the presuppositions of business, job discrimination, worker's rights, consumerism, advertising, and responsibility to the environment as well as compassionate and fair responsibility to society. (Contact hours - 45)

PHI 214 PHILOSOPHY OF RELIGION**3 CR (3-0)**

Focuses on the critical analysis and evaluation of the fundamental concepts, ideas and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of the ultimate reality, arguments concerning God's existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience and religious diversity. (Contact hours - 45) State Guaranteed Transfer Course.

PHI 218 ENVIRONMENTAL ETHICS**3 CR (3-0)**

Analyzes theories of value of the natural world. Topics may 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 and the connection between moral and political values and economic policies. (Contact hours - 45) State Guaranteed Transfer Course.

PHI 220 PHILOSOPHY OF DEATH & DYING**3 CR (3-0)**

Explores the major philosophical questions surrounding death and dying: the metaphysical arguments for and against the existence of a soul, life after bodily death, the major ethical theories and their relation to issues of physician-assisted suicide, care for the dying, the grieving process, death as expressed in aesthetics and contemporary society, as well as the existential contributions concerning meaning of life and the meaning of death. (Contact hours - 45) State Guaranteed Transfer Course. Additional courses are available through Colorado Community College Online (CCC Online).

PHYSICS

PHY 103 PHYSICS FOR CTE OCCUPATIONS**2 CR (1-2)**

Focuses on physics of mechanics, heat, properties of matter, electricity, magnetism, light and sound as applied in career & technical occupations. (Contact hours - 45)

PHY 105 CONCEPTUAL PHYSICS**4 CR (3-2)**

Focuses on mechanics, heat, properties of matter, electricity and magnetism, light and modern physics. Incorporates laboratory experience. *Prerequisite: MAT 55 ("C" or better).* (Contact hours - 75) State Guaranteed Transfer Course.

PHY 111 PHYSICS: ALGEBRA-BASED I W/LAB**5 CR (4-2)**

Covers the physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. Major topics include kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, and rotational mechanics. This course may also include topics relating to simple harmonic motion and traveling and standing waves. This is a statewide Guaranteed Transfer course in the GT-SCI category. Students entering engineering or one of the advance sciences should register for PHY 211. *Prerequisite: MAT 121 OR MAT 122 OR MAT 166 recommended ("C" or better).* (Contact hours - 90)

PHY 112 PHYSICS ALGEBRA-BASED II W/LAB**5 CR (4-2)**

Covers the physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. DC circuits involving resistors, capacitors and batteries will be covered. Also covered are electromagnetic waves and geometric optics. This course may also include topics relating to simple harmonic motion, traveling and standing waves, and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SCI category. *Prerequisite: PHY 111 ("C" or better).* (Contact hours - 90)

PHY 175 SPECIAL TOPICS**1-6 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PHY 211 PHYSICS: CALCULUS-BASED**5 CR (4-2)**

Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SCI category. *Prerequisites: MAT 201 ("C" or better).* (Contact hours - 90)

PHY 212 PHYSICS: CALCULUS-BASED II W/LAB**5 CR (4-2)**

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. *Prerequisite: PHY 211 ("C" or better).* (Contact hours - 90) State Guaranteed Transfer Course.

PHY 275 SPECIAL TOPICS**1-6 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. Additional courses are available through Colorado Community College Online (CCC Online).

POLITICAL SCIENCE

POS 105 INTRODUCTION TO POLITICAL SCIENCE

3 CR (3-0)

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. (Contact hours - 45) State Guarantee Transfer Course.

POS 111 AMERICAN GOVERNMENT

3 CR (3-0)

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, the electoral process, and the structure and functions of the national government. (Contact hours - 45) State Guarantee Transfer Course.

POS 125 AMERICAN STATE/LOCAL GOVERNMENT

3 CR (3-0)

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. (Contact hours - 45) State Guaranteed Transfer Course.

POS 175 SPECIAL TOPICS

1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

POS 205 INTERNATIONAL RELATIONS

3 CR (3-0)

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. (Contact hours - 45) State Guarantee Transfer Course.

POS 225 COMPARATIVE GOVERNMENT

3 CR (3-0)

Focuses on a comparison of the basic features of selected developed and developing countries. Topics include ideologies, political parties, interest groups, and governmental institutions. (Contact hours - 45)

Additional courses are available through Colorado Community College Online (CCC Online).

PSYCHOLOGY

PSY 101 GENERAL PSYCHOLOGY I

3 CR (3-0)

Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. *Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Co-requisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guarantee Transfer Course.

PSY 175 SPECIAL TOPICS

1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PSY 205 PSYCHOLOGY OF GENDER

3 CR (3-0)

Examines gender comparisons in working, courtship, family life and sexual behavior throughout the life span. (Contact hours – 45 State Guarantee Transfer Course.

PSY 207 INTRO TO FORENSIC PSYCHOLOGY

3 CR (3-0)

Introduction to Forensic Psychology is an overview of forensic psychology. As such it explores both current research and practice in five areas. These areas are police psychology, criminal psychology, victimology, correctional psychology and the interface of psychology and the courts. The course facilitates an understanding of the numerous careers related to forensic psychology, how to prepare for them and current research and practice in each of the five broad areas of forensic psychology. (Contact hours – 45)

PSY 217 HUMAN SEXUALITY

3 CR (3-0)

Surveys physiological, psychological and psychosocial aspects of human sexuality. Topics include relationships, sexual identity and sexual health. (Contact hours – 45 State Guaranteed Transfer Course.

PSY 226 SOCIAL PSYCHOLOGY

3 CR (3-0)

Focuses on the behavior of humans in social settings including attitudes, aggression, conformity, cooperation, competition, prejudice and interpersonal attraction. *Prerequisites: 3 hours General PSY, 3 hours General SOC OR instructor approval.* (Contact hours – 45) State Guarantee Transfer Course.

PSY 227 PSYCHOLOGY OF DEATH AND DYING

3 CR (3-0)

Examines the philosophies of life and death, emphasizing dying, death, mourning and the consideration of one's own death. (Contact hours – 45) State Guarantee Transfer Course

PSY 230 BASIC HUMAN POTENTIAL

2 CR (2-0)

Focuses on the self-actualization principles of psychologists, Abraham Maslow and Herbert Otto. Students engage in structured activities designed to develop skills for understanding and improving self-motivation and self-determination in a variety of relationships. (Contact hours – 30)

PSY 231 POSITIVE PSYCHOLOGY

3 CR (3-0)

Focuses on human strengths rather than the traditional view of psychology that tends to focus on the worst of human nature. This course is designed to explore strengths-based research, concepts of happiness, helpfulness and resiliency. The research and theories about human nature will go beyond simply not being mentally ill as a form of mental health, which will include optimism, post-traumatic growth and how to increase emotional, psychological and social functioning. Overall, this course will be focused on understanding one's own sense of life satisfaction and how to further improve well-being. (Contact hours – 45) State Guarantee Transfer Course.

PSY 235 HUMAN GROWTH & DEVELOPMENT

3 CR (3-0)

Examines human development from conception through death emphasizing physical, cognitive, emotional and psychosocial factors. *Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Co-requisite: CCR 94 AND ENG 121.* (Contact hours – 45) State Guarantee Transfer Course.

PSY 237 CHILD & ADOLESCENT PSYCHOLOGY 3 CR (3-0)

Explores human development from conception through adolescence, emphasizing physical cognitive, emotional and psychosocial factors. (Contact hours – 45)

PSY 238 CHILD DEVELOPMENT 3 CR (3-0)

Focuses on growth and development of the individual from conception through childhood, emphasizing physical, cognitive, emotional and psychosocial factors. (Contact hours – 45) State Guarantee Transfer Course.

PSY 240 HEALTH PSYCHOLOGY 3 CR (3-0)

Students will learn an overview of the scientific study of attitudes, behaviors and personality variables related health, illness and bodily systems. Emphasis is on the interaction of biological, psychological and social factors that cause illness and influence its treatment and prevention. *Prerequisites:* BIO 105, BIO 111, PSY 101, PSY 102 or PSY 235. (Contact hours – 45) State Guarantee Transfer Course.

PSY 245 EDUCATIONAL PSYCHOLOGY 3 CR (3-0)

Focuses on the relationships between theory, research and practice in the areas of learning, child development, motivation and educational assessment. (Contact hours – 45)

PSY 249 ABNORMAL PSYCHOLOGY 3 CR (3-0)

Examines abnormal behavior and its classification, causes, treatment and prevention. (Contact hours – 45) State Guarantee Transfer Course.

PSY 265 PSYCH OF PERSONALITY 3 CR (3-0)

Examines the structure, function and development of personality. Investigates the major contemporary theories of personality. Covers psychodynamic, behavioral, cognitive-social learning, humanistic, trait and optionally, neurobiological, existential and/or Eastern perspectives. The underlying assumptions and research support for these theories are appraised. Enables the student to gain an appreciation of the value of alternative theoretical approaches to this subfield of psychology. (Contact hours – 45)

PSY 275 SPECIAL TOPICS 1-6 CR

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PSY 285 INDEPENDENT STUDY 1-6 CR

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. *Prerequisite:* instructor approval. Additional courses are available through Colorado Community College Online (CCC Online).

RANGE MANAGEMENT**RAM 205 PRINCIPLES OF RANGE MGT 3 CR (2-2)**

Presents the historical and current status of the range livestock industry. Management principles for private and public rangelands, range plant identification and range plant communities are covered. (Contact hours – 60)

READING**REA 130 APPLIED AND TECHNICAL READING 2 CR (2-0)**

(Core Course for AGS or AAS)

Focuses on the appropriate reading strategies to understand technical, vocational and academic texts, manuals, professional journals and pleasure materials, to complete a task in the workplace and to comprehend a new process. *Prerequisite:* Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). (Contact hours – 30)

RECREATION**REC 100 INTRODUCTION TO RECREATION 2 CR (2-0)**

Studies the history, principles, philosophy, contemporary problems, and trends of recreation and their influence upon today's American society. (Contact hours - 30)

REC 120 INTRO TO SPORTS MANAGEMENT 3 CR (3-0)

Provides the student with knowledge of management in the areas of facilities, professional organizations, educational institutions, and promotions as well as the different managerial styles that can be applied. This course will also provide the student with individual topics such as quality control, leadership, strategic planning, information systems, and sport research. (Contact hours - 45)

REC 210 PRINCIPLES OF OUTDOOR REC 3 CR (3-0)

Includes lecture and practical outdoor experience relating to problems and trends in outdoor recreation. (Contact hours - 45)

REC 220 SOCIAL RECREATION & LEADERSHIP 3 CR (3-0)

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. (Contact hours - 45)

REC 221 RECREATION SKILLS 3 CR (3-0)

Focuses on skills necessary to organize effectively and conduct various recreation activities for the recreation major. Covers sports and games, community centers, fine arts, and playground skills. (Contact hours - 45)

SCIENCE**SCI 105 SCIENCE IN SOCIETY 3 CR (3-0)**

Examines issues relating to the way science interacts with society. A selection of issues from information technology, the environment and earth science, physics and astronomy, biology, medicine, and the interaction of science with politics will be examined, as informed by current events. Emphasis will be on research, inquiry, and critical analysis of science-related issues, including the negative and positive roles of science in society. This is a statewide Guaranteed Transfer course in the GT-SC2 category. (Contact Hours - 45)

SCI 155 INTEGRATED SCIENCE I-PHYSICS & CHEMISTRY W/LAB**4 CR (3-2)**

Examines the nature of energy and matter, their interactions and changes, and the application of fundamental concepts to the study of our natural world. These concepts will be explored in hands-on laboratory experiments. This course integrates the fundamental concepts and ideas about the nature of physics and chemistry with the natural world. This is a statewide Guaranteed Transfer course in the GT-SC1 category. *Prerequisite: MAT 50 ("C" or better).* (Contact Hours - 75)

SCI 156 INTEGRATED SCIENCE II-EARTH & LIFE SCIENCE W/LAB**4 CR (3-2)**

Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. *Prerequisite: MAT 50 ("C" or better).* (Contact hours - 75)

Additional courses are available through Colorado Community College Online (CCC Online).

SOCIOLOGY**SOC 101 INTRODUCTION TO SOCIOLOGY I** **3 CR (3-0)**

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. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* State Guaranteed Transfer Course.

SOC 102 INTRODUCTION TO SOCIOLOGY II **3 CR (3-0)**

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. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139).* *Co-requisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guarantee Transfer Course.

SOC 175 SPECIAL TOPICS **0-6 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SOC 218 SOCIOLOGY OF DIVERSITY **3 CR (3-0)**

Explores the variety of intergroup relations regarding race, nationality, ethnicity, gender, sexual orientation, and other diversity issues. Patterns of prejudice, discrimination, and possible solutions to these issues will be addressed. (Contact hours - 45) State Guarantee Transfer Course.

SOC 231 SOCIOLOGY OF DEVIANT BEHAVIOR **3 CR (3-0)**

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. (Contact hours - 45) State Guaranteed Transfer Course.

SOC 275 SPECIAL TOPICS**0-6 CR**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

Additional courses are available through Colorado Community College Online (CCC Online).

SPANISH**SPA 101 CONVERSATIONAL SPANISH I****3 CR (0-6)**

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. (Contact hours - 45)

SPA 102 CONVERSATIONAL SPANISH II**3 CR (0-6)**

Offers students the skills necessary to understand and speak Spanish. The material continues to cover basic conversations patterns, expressions, and grammar. *Prerequisite: SPA 101 ("C" or better) OR instructor approval.* (Contact hours - 45)

SPA 111 SPANISH LANGUAGE I**5 CR (5-0)**

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. (Contact hours - 75)

SPA 112 SPANISH II**5 CR (5-0)**

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. *Prerequisite: SPA 111 ("C" or better) OR instructor approval.* (Contact hours - 75)

SPA 175 SPECIAL TOPICS**1-6**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SPA 211 SPANISH III**3 CR (3-0)**

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. *Prerequisites: SPA 112 AND SPA 114 ("C" or better) OR instructor approval.* (Contact hours - 45) State Guaranteed Transfer Course.

SPA 212 SPANISH IV**3 CR (3-0)**

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. *Prerequisite: SPA 211 OR instructor approval.* (Contact hours - 45) State Guaranteed Transfer Course.

SPA 275 SPECIAL TOPICS**1-6 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SPA 285 INDEPENDENT STUDY**1-6 CR**

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

Prerequisite: instructor approval.

Additional courses are available through Colorado Community College Online (CCC Online)

THEATRE

THE 105 THEATRE APPRECIATION**3 CR (3-0)**

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. (Contact hours - 45) State Guaranteed Transfer Course.

THE 108 THEATRE SCRIPT ANALYSIS**3 CR (3-0)**

Introduces students to methods of reading and analyzing literature for the stage. In addition, students will apply staging and design concepts in visualizing and analyzing how a play looks, sounds, and feels when produced. (Contact hours - 45) State Guaranteed Transfer Course.

THE 111 ACTING I**3 CR (3-0)**

Covers basic acting techniques and approaches including scene study, improvisation, and script analysis. It includes practical application through classroom performance. (Contact hours - 45)

THE 112 ACTING II**3 CR (3-0)**

Continues to explore basic acting techniques and approaches including scene study, improvisation, and intermediate script analysis. It includes practical application through classroom performance. *Prerequisite: THE 111 ("C" or better) OR instructor approval. THE 105 is strongly advised.* (Contact hours - 45)

THE 131 THEATRE PRODUCTION I**3 CR (3-0)**

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. (Contact hours - 45)

THE 132 THEATRE PRODUCTION II**3 CR (3-0)**

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. (Contact hours - 45)

THE 141 IMPROVISATION I**1 CR (1-0)**

Helps students learn improvisation skills for performance and character development. Emphasis is placed on Second City style of improvisation. (Contact hours - 15)

THE 211 DEVELOPMENT OF THEATRE:**GREEK RENAISSANCE****3 CR (3-0)**

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. (Contact hours - 45) State Guaranteed Transfer Course.

THE 212 DEVELOPMENT OF THEATRE:**RESTORATION- MODERN****3 CR (3-0)**

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. (Contact hours - 45) State Guaranteed Transfer Course.

THE 215 PLAYWRITING**3 CR (3-0)**

Gives students the opportunity to learn and practice playwriting techniques, thereby improving creative writing skills. Elements of dramatic structure, dialogue, styles, and theatrical practices are emphasized. (Contact hours - 45) State Guaranteed Transfer Course.

THE 246 REHEARSAL & PERFORMANCE**1 CR (0-2)**

Gives the student actor practical experience in a real acting environment. Through the audition and rehearsal process the student's imagination and creative potential will be stimulated. Special attention will be given to characterization, stage movement, speech techniques, dramatic form and the rehearsal / production / performance process. The successful rehearsal and presentation of the current production to the public will be the focal point of their activities. Previous acting experience is helpful but not required. (Contact hours - 60)

THE 247 REHEARSAL & PERFORMANCE II**2 CR (0-4)**

Gives the student actor practical experience in a real acting environment. Through the audition and rehearsal process the student's imagination and creative potential will be stimulated. Special attention will be given to characterization, stage movement, speech techniques, dramatic form and the rehearsal / production / performance process. The successful rehearsal and presentation of the current production to the public will be the focal point of their activities. Previous acting experience is helpful, but not required. (Contact hours - 60)

THE 248 REHEARSAL & PERFORMANCE III**3 CR (0-6)**

Gives the student actor practical experience in a real acting environment. Through the audition and rehearsal process the student's imagination and creative potential will be stimulated. Special attention will be given to characterization, stage movement, speech techniques, dramatic form, and the rehearsal / production / performance process. The successful rehearsal and presentation of the current production to the public will be the focal point of their activities. Previous acting experience is helpful but not required. (Contact hours - 60)

THE 275 SPECIAL TOPICS**1-3 CR**

Explores current topics, issues, and activities related to one or more aspects of the named discipline.

THE 285 INDEPENDENT STUDY**1-3 to 5 CR**

Emphasizes structured, guided, and individualized study that is organized and tailored around the interests and needs of the individual student.

WELDING TECHNOLOGY

WEL 100 SAFETY FOR WELDERS**1 CR (0-1.5)**

Covers the hazards of welding on health and safety, locating essential safety information from a code or other standard, and identifying and applying shop safety procedures. (Contact Hours – 22.5)

WEL 106 BLUEPRINT READ-WELDERS/FITTERS**4 CR (4-0)**

Covers interpreting weld symbols on blueprints, identifying proper layout methods and tools, and proper joint design necessary for various welding processes. (Contact hours - 60)

WEL 110 ADVANCED SHIELDED METAL ARC I**4 CR (0-6)**

Covers safety inspections, minor repairs, operating parameters, operation of SMAW equipment, and SMAW operations on groove and fillet welds utilizing E-6010 and E-7018 electrodes. Layout procedures will be practiced during this course. (Contact hours - 90)

WEL 113 OXYFUEL AND PLASMA CUTTING**2 CR (0-3)**

Outlines the skills needed to set up equipment and perform cutting and gouging operations utilizing the oxyacetylene and plasma arc cutting processes. (Contact hours - 45)

WEL 114 OXYACETYLENE WELDING**2 CR (0-3)**

Teaches the skills necessary to perform safety inspections, make minor repairs, adjust operating parameters, operate oxyacetylene welding equipment, and perform oxyacetylene welding, brazing, and soldering operations. (Contact hours - 45)

WEL 116 SMAW-FLAT & HORIZONTAL**2 CR (0-3)**

Covers fundamental knowledge and skills required for the safe use of Shielded Metal Arc Welding (SMAW) equipment including proper set up, shut down, electrode selection, striking the arc, running a bead, making fillet and groove open root welds in the flat and horizontal positions, proper use of E6010, E7018, and other electrodes, and weldment inspection. (Contact hours – 45)

WEL 117 SMAW – VERTICAL**2 CR (0-3)**

Covers Shielded Metal Arc Welding (SMAW) techniques in the vertical position including the use of E6010 and E7018 electrodes, proper set up and shut down of the welding equipment, electrode selection, vertical up and down stringer beads using E6010 electrodes, and vertical up fillet and groove welds using E6010 and E7018 electrodes. *Pre-requisite: WEL 116 ("C" or better).* (Contact hours – 45)

WEL 118 SMAW – OVERHEAD**2 CR (0-3)**

Covers Shielded Metal Arc Welding (SMAW) techniques in the overhead position including the use of E6010 and E7018 electrodes, proper set up and shut down of the welding equipment, electrode selection, overhead stringer and weave beads using E6010 and E7018 electrodes, and overhead fillet and groove welds using E6010 and E7018 electrodes. *Pre-requisite WEL 117 ("C" or better).* (Contact hours – 45)

WEL 124 INTRO-GAS TUNGSTEN ARC WELDING**4 CR (0-6)**

Covers welding in all positions and on various joint configurations using the GTAW (TIG) welding process on carbon steel, stainless steel, and aluminum. Student should be familiar with basic metallurgy pertaining to the weld ability of metals, structural joints, and safety in the welding industry. (Contact hours - 90)

WEL 140 WELDING PRACTICES & PROCEDURES**1.5 CR (0-2.25)**

Teaches applied metallurgy, welding process applications, and related safety. This intensive course provides a one-of-a-kind opportunity for welding operators, technicians, and supervisors to learn more about the maintenance process and is ideal for improving the skills and on-the-job expertise of a wide range of personnel including: inexperienced welding operators, experienced welding operators in management positions, and anyone else working in a plant or equipment maintenance position where welding repairs are required. (Contact hours – 33.75)
"Open to Any Student"

WEL 126 GMAW (MIG) STEEL – I**2 CR (0-3)**

Covers the theory and techniques in basic Gas Metal Arc Welding (GMAW) to produce sound fillet welds and groove welds in both the flat and vertical positions using short-circuit and spray modes of metal transfer. (Contact hours – 45)

WEL 164 GTAW (TIG) STEEL – I**2 CR (0-3)**

Examines theory and techniques used in basic Gas Tungsten Arc Welding (GTAW) of steel fillet and groove welds in the flat and vertical positions including equipment adjustment, tungsten electrode types, and the use of different gases. (Contact hours – 45)

WEL 165 GTAW (TIG) STEEL – II**2 CR (0-3)**

Examines the theory and techniques used in Gas Tungsten Arc Welding (GTAW) of steel fillet and groove welds in the horizontal and overhead positions including equipment adjustment and pulse arc welding. *Prerequisite: WEL 164 ("C" or better).* (Contact hours – 45)

WEL 201 GAS METAL ARC WELDING I**4 CR (0-6)**

Covers safety inspections, minor repairs, operating parameters, operation of GMAW equipment on plain carbon steel utilizing short circuit and spray transfer, and fundamental metallurgy principles. (Contact hours - 90)

WEL 203 FCAW I**4 CR (0-6)**

Covers safety inspections, minor repairs, operating parameters, operations of FCAW equipment utilizing self-shielded wire and principles of joint design, preparation and material selection to welding operations. (Contact hours – 90)

WEL 216 SMAW - PIPE I**2 CR (0-3)**

Covers the use of Shielded Metal Arc Welding (SMAW) for basic pipe welding techniques involving pipe-to-plate, single, and multiple pass fillet welds in the horizontal, overhead, and vertical positions using E6010 and E7018 electrodes including proper positioning around pipe and tube in preparation for welding pipe-to-pipe connections.

Prerequisite: WEL 118 ("C" or better). (Contact hours – 45)

WEL 217 SMAW - PIPE II**2 CR (0-3)**

Provides instruction of advanced pipe welding techniques using the Shielded Metal Arc Welding (SMAW) process to weld open root and pipe-to-pipe connections in the horizontal (2G), multi-position vertical uphill progression (5G), and multi-position 45-degree incline (6G) positions using E6010 and E7018 electrodes. Each pipe position is tested using visual inspection and root/face bend test.

Prerequisite: WEL 216 ("C" or better). (Contact hours – 45)

WEL 218 SMAW - PIPE III**2 CR (0-3)**

Provides instruction of advanced pipe welding techniques of Gas Tungsten Arc Process (GTAW) and Shielded Metal Arc Welding (SMAW) for welding open root, pipe-to-pipe connections in the horizontal (2G), multi-position vertical uphill progression (5G), and multi-position 45-degree incline (6G) positions with GTAW root and SMAW E7018 electrodes for the fill/cap. Each pipe position is tested using visual inspection and root/face bend test specimens.

Prerequisite: WEL 217 AND WEL 165 ("C" or better).

(Contact hours – 45)

WEL 226 GMAW (MIG) STEEL – II**2 CR (0-3)**

Covers the theory and techniques in Gas Metal Arc Welding (GMAW) to produce sound fillet welds and groove welds in both the horizontal and overhead positions using short-circuit and pulsed-spray modes of metal transfer. This course is a continuation of GMAW – Steel I. *Prerequisite:* WEL 126 ("C" or better).

(Contact hours – 45)

WEL 227 GMAW III - STAINLESS & ALUM**2 CR (0-3)**

An advanced course covering Gas Metal Arc Welding (GMAW) of aluminum and steel using stainless steel wire in all positions utilizing short-circuit, spray, and pulsed-spray modes of metal transfer. *Pre-requisite:* WEL 226 ("C" or better). (Contact hours – 45)

WEL 230 PIPE WELDING I**4 CR (0-6)**

Covers safety inspections, minor repairs, operating parameters, and operation of SMAW, GMAW, and FCAW equipment in a variety of positions on plain carbon steel pipe joints. Also covers evaluating and solving complex welding and fabrication problems and administering hands on training and supervision to other students during assigned fabrication and welding operations (Contact hours - 90)

WEL 231 PIPE WELDING II**4 CR (0-6)**

Learn to perform safety inspections, make minor repairs, adjust operating parameters, and operate SMAW and GTAW equipment on plain carbon steel pipe joints. The student should also be able to evaluate and solve complex welding and fabrication problems, administer hands on training, and supervise other students during assigned fabrication and welding operations. (Contact hours - 90)

WEL 251 DESIGN, LAYOUT & FABRICATION**4 CR (0-6)**

Develops advanced welding and associated skills in the use of drawings and blueprints in planning. This course includes designing and layout projects. (Contact hours - 90)

WEL 252 FCAW - FLAT & VERTICAL**2 CR (0-3)**

Covers gas shielded and self-shielded Flux-cored Arc welding (FCAW) in the flat & vertical positions using semi-automatic equipment. *Pre-requisite:* WEL 226 ("C" or better). (Contact hours – 45)

WEL 253 FCAW - HORIZONTAL & OVERHEAD**2 CR (0-3)**

Covers gas shielded and self-shielded Flux-cored Arc welding (FCAW) in the horizontal & overhead positions using semi-automatic equipment. *Pre-requisite:* WEL 252 ("C" or better). (Contact hours – 45)

WEL 254 GAS SHIELDED ARC – PIPE**2 CR (0-3)**

Covers advanced Gas Shielded Arc Welding (GMAW) operations of pipe-to-pipe connections including open root, fill, and cover passes in the 2G position with GMAW-S, 5G GMAW-S open root vertical down with FCAW-G fill and cover passes, 6G GMAW-S open root vertical up with FCAW-S fill and cover passes, and 6G GTAW open root with FCAW-G of the fill and cover passes. *Pre-requisite:* WEL 253 AND WEL 226 ("C" or better). (Contact hours – 45)

WEL 260 GTAW STAINLESS & ALUMINUM – I**2 CR (0-3)**

Examines theory and techniques used in basic Gas Tungsten Arc Welding (GTAW) of stainless steel and aluminum in the flat and vertical positions including equipment adjustment, tungsten electrodes types, and the use of different gases. *Pre-requisite:* WEL 165 ("C" or better). (Contact hours – 45)

WEL 261 GTAW STAINLESS & ALUMINUM – II**2 CR (0-3)**

Covers Gas Tungsten Arc Welding (GTAW) of stainless steel and aluminum in the horizontal and overhead positions including the study of pulse arc welding. This course is a continuation of Gas Tungsten Arc Welding (GTAW)-Stainless and Aluminum I. *Pre-requisite:* WEL 260 ("C" or better). (Contact hours – 45)

WEL 263 APPLIED METAL PROPERTIES**4 CR (0-6)**

Introduces the study of metal properties, hardness testing, heat treatment, cold working microscopic examination, and application of common commercial alloys in industry. (Contact hours - 75)

WIND TURBINE GENERATOR

WTG 100 INTRODUCTION TO WIND INDUSTRY**3 CR (3-0)**

Introduces students to the wind- power generation industry. Topics covered will include physics of wind energy, various sizes and types of wind turbines, and reading wind maps for finding the best wind locations. Students will also engage in discussions of the impact of the wind industry on social, environmental, economic, and political issues. (Contact hours - 45)

WTG 110 WTG POWER DISTR. & CONTROL SYST**3 CR (0-4.5)**

Provides a comprehensive overview of the wind turbine generator systems. Focus will be on the power distribution and systems controls including theory, application, component identification, and schematics. Safety and appropriate Personal Protective Equipment will be emphasized in lab environment. *Co-requisite: ELT 252 ("C" or better)*. (Contact hours – 67.5)

WTG 175 SPECIAL TOPICS**1-12 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours – 22.5 per credit)

WTG 220 WTG TROUBLESHOOTING & REPAIR**4 CR (0-6)**

Introduces students to standards and techniques of wind turbine technician operations, maintenance, troubleshooting, and repair. Emphasis on teamwork, safety, accuracy, and efficiency, as well as basic troubleshooting techniques. Discussion will cover building, commissioning, warranty, operations & maintenance, and hotshot troubleshooting crews and work environments. *Prerequisite: ELT 258 ("C" or better)*. (Contact hours - 90)

WTG 230 WIND TURBINE SYSTEMS**3 CR (0-4.5)**

Covers the standards and techniques to safely and efficiently troubleshoot and repair combined electrical, hydraulic, and mechanical systems and associated equipment. Emphasis will be on teamwork, communication, proper documentation, root cause analysis and reporting.

Discussions will cover converter systems, component repair, cooling/heating/pressure/level systems, PLC controls, gearbox and hydraulic systems and the tools needed for root cause identification. *Prerequisites: IMA 150, IMA 160, EIC 220 ("C" or better)*. (Contact hours – 67.5)

WTG 275 SPECIAL TOPICS**1-12 CR**

Provides students with a vehicle to pursue in-depth exploration of special topics of interest. (Contact hours – 22.5 per credit)

WTG 280 WIND TECHNICIAN INTERNSHIP**6 CR**

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. *Prerequisite: ELT 252 ("C" or better)*. (Internship hours - 240)

WTG 289 WIND TECHNICIAN CAPSTONE**2 CR (2-0)**

Provides a comprehensive overview of the Wind Technician Program, giving the student a unified picture of the wind industry and the role of the wind technician. Students are further prepared for entering industry by developing their own resume, introduced to online job services, and industry organizations. Current and future wind industry niches and trends will be discussed to give the students possible career paths to look further into and plan for. (Contact hours - 30)

PLACEMENT REFERENCE GUIDE

College Level Class	ACT	SAT	SDP	HS CODE	Accuplacer	NEXGEN Accuplacer	GED	Other Comments
AAA 75								Paired with MAT 50.
AAA 76								Paired with MAT 55.
AAA 77								Paired with MAT 102.
AAA 78/79								Paired with MAT 107.
ASC 100					RC ≥ 62	NGWR ≥ 246		
AST 101 / 102 BIO 111	Reading ≥ 17	S11 ≥ 470	EXCR = 092		RC ≥ 80	NGWR ≥ 246		College level reading required.
BUS 115					RC ≥ 62	NGWR 200 - 235		
BUS 226	Math ≥ 19	S12 ≥ 500	EX50 = 1	CRAL = 100	EA ≥ 61	NGQA 240 - 300		
CCR 091								Paired with CCR 92.
CCR 092			EXCR = 091		SS 50 - 69 &/or RC 40 - 61	NGWR 200 - 235		
CCR 94			EXCR = 092		SS 70 - 94 &/or RC 62 - 79	NGWR 236 - 245		Paired with ENG 121.
EMS 115 EMS 121	Reading ≥ 17	S11 ≥ 470			RC ≥ 80			
ENG 115 ENG 131	English ≥ 18 & Reading ≥ 17	S11 ≥ 470	EXCR = 092	CRCW = 100	SS 70 - 94 &/or RC 62 - 79	NGWR ≥ 236		TOEFL ≥ 66 or IELTS ≥ 6.6
ENG 121	English ≥ 18 & Reading ≥ 17	S11 ≥ 470	EXCR = 092	CRCW = 100	SS ≥ 95 &/or RC ≥ 80	NGWR ≥ 246	GEDL ≥ 165	TOEFL ≥ 66 or IELTS ≥ 6.6
ESL 54			EXCR = 091					TOEFL 52-65 or IELTS 5-6.5
MAT 50			EXMA = 30		AR 20 - 44 or EA 20 - 60	NGAR 200 - 300		
MAT 55	Math ≥ 19		EX50 = 1		AR ≥ 45 or EA 61 - 79	NGQA 250 - 300		
MAT 80	Math ≥ 19	S12 ≥ 500	EX50 = 1	CRAL = 100	EA ≥ 61	NGQA ≥ 230		Paired with MAT 120.
MAT 81	Math ≥ 19	S12 ≥ 530	EX55 = 1	CRAL = 100	EA ≥ 80	NGAF 235-244		Paired with MAT 121.
MAT 85	Math ≥ 19	S12 ≥ 500	EX50 = 1	CRAL = 100	EA ≥ 61	NGQA ≥ 230		Paired with MAT 135.
MAT 102 MAT 103 MAT 107 MAT 112	Math ≥ 19	S12 ≥ 500	EX50 = 1	CRCM = 100	EA ≥ 45	NGAR 265 - 300	GEDM ≥ 165	Career/Tech Programs only. Consult with advisor regarding placement scores.
MAT 120	Math ≥ 19	S12 ≥ 500	EX50 = 1	CRAL = 100	EA ≥ 61	NGQA ≥ 230	GEDM ≥ 165	
MAT 121	Math ≥ 23	S12 ≥ 590	EX55 = 1	CRAL = 100	EA ≥ 85	NGQA ≥ 245 - 279		
MAT 122	Math ≥ 24	S12 ≥ 610		CRAL = 100	CLM 63 - 102	NGAF 280-300		
MAT 123	Math ≥ 23	S12 ≥ 590			EA ≥ 85			
MAT 125	Math ≥ 24	S12 ≥ 610		CRAL = 100	CLM 63 - 102	NGAF 280 - 300		
MAT 135	Math ≥ 19	S12 ≥ 500	EX50 = 1	CRAL = 100	EA ≥ 61	NGQA 240 - 300	GEDM ≥ 165	
MAT 155	Math ≥ 19	S12 ≥ 500	EX50 = 1	CRAL = 100	EA ≥ 61	NGQA 240 - 300	GEDM ≥ 165	Must also take MAT 156.
MAT 166	Math ≥ 24	S12 ≥ 610		CRAL = 100	CLM 63 - 102	NGAF 280 - 300		
MAT 201	Math ≥ 28	S12 ≥ 650			CLM ≥ 103			
PSY 101/102 PSY 135	Reading ≥ 17	S11 ≥ 470	EXCR = 092		RC ≥ 80	NGWR ≥ 246		College level reading required.
REA 130					SS 70 - 94 &/or RC 62 - 79			Career/Tech Programs only. Consult with
SOC 101/102	Reading ≥ 17	S11 ≥ 470	EXCR = 092		RC ≥ 80	NGWR ≥ 246		College level reading required.

*For CCPT scores, contact Student Success Center.

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Anderson, Danielle (Life Skills Coach/Clinical Nursing Instructor) B.S.N. – Mississippi College
Anderson, Mike (Department Chair-Agriculture) A.A. Northeastern; B.S.-Colorado State University; M. Ed.-Colorado State University
Annan, Jack (Alumni Executive Director/Young Farmer Coordinator) B.S. Colorado State University; M.Ed.-Colorado State University
Armstrong, Susan (EMS Instructor) C.E.-Northeastern
Atencio, Jimmy (Diesel Technology)
Bade, Brianna (Grounds Crew)
Bair, Dennis (Assistant Men's Baseball Coach)
Bartlett, Andy (Agriculture) B.S.-Colorado State University; M.S.-Colorado State University
Berns, Pam (Humanities and Social Science)
Betzmer, Jennifer (English Faculty) A.A.-Northeastern; B.A.-Doane University; M.A.-University of Wyoming

Bornhoft, Melissa (Assistant Director-Monahan Learning Center) A.A.-Northeastern; B.S.-Colorado State University
Bowey, Logan (Tutor) B.A.-Colorado State University
Brady-Lawler, Donna (Early Childhood Education) B.A.-Metro State College; M.Ed.-Colorado State University
Brandenburg, Jannifer (Nursing) B.S.N.-University of Utah; M.S.N.-University of Northern Colorado
Brekel, Dale (Custodian I)
Brever, Cody (Math and Business Specialist) B.S.-University of Northern Colorado
Briggs, Cole (Equine Management) B.S.-Colorado State University
Bright, Kathy (Custodian I)
Britton, Bridget (Emergency Medical Services) C.E.-Northeastern
Brower, Julie (Director of Nursing Programs) B.S.N.-University of Northern Colorado; M.S.N.-University of Northern Colorado
Brown, Julie (Holyoke ABE ESL)
Brown, David (Assistant Wrestling Coach)
Brungardt, Cherie (Director-Information Technology) A.A.-Northeastern; B.S.-Regis University
Brungardt, Collin (Computer Support)
Brungardt, Heather (Director-Bookstore) A.A.-Northeastern; A.S.-Northeastern; B.S.-Colorado State University
Buderus, Keith (Head Men's Soccer Coach) B.S.-Business Marketing, Colorado State University
Budin-Weatherill, Stephanie (English) B.S.-University of Colorado; M.S.-Regis University
Burkholder, Karen (Health, Performance and Exercise Instructor)
Buss, Jolene (Health Professional) A.S. Colby Community College
Campo, Kristen (Student Communications Coordinator) A.G.S.-College of Southern Nevada; B.S.-Colorado State University
Carey, Cindy (Student Guidance Coordinator) B.A.-University of Colorado at Colorado Springs; M.S.W.-Denver University
Carlson, Warren (Event Center Supervisor)
Carlstedt, Amy (Document Center/Mailroom Coordinator) B.S. University of Nebraska-Lincoln
Carnahan-Kuhns, McKailie (Admissions Coordinator)
Chavez, Gary (Grounds & Nursery I)
Chrisman, McKenzie (Assistant Volleyball Coach) BA University of West Florida
Coats, Brad (Electrical Trades II)
Coles, David (Chemistry/Astronomy) B.S. University of Maine at Orono; M.S.-Colorado State University
Conner, Martha (Cosmetology) Cosmetology License-Northeastern
Cranwell, Rebecca (Lead Reading; English) B.A.-University of Northern Colorado; M.A.-University of Northern Colorado
Cullen, Brian (Agriculture Business Management) B.S.-Oklahoma Panhandle State University
Curtis, Theresa (Health and Safety)
Davis, Brant (Director-Residence Hall); A.A.S.-Northeastern
Delgado-Pelton, Celeste (Liberal Arts Program Director) B.M.E. University of Northern Colorado; M.M.-University of Northern Colorado
Denette, Justin (Admissions Coordinator)
Dennington, Denise (Assistant Athletic Director of Game Management/Student Adviser) B.A.-University of Northern Colorado; M.S.-University of Northern Colorado
Dillinger, Michael (I.T. Technician)
Doane, Kala (Adult Agriculture Business Management) B.S.-University of Northern Colorado
Dodge, Cindy (Grounds & Nursery I)

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- Dowis, Brett** (Emergency Medical Services) B.D.-Colorado State University
- Edgar, Sam** (Spanish) A.A.-Grossmont College; B.A.-California State University, Fullerton; B.A.-Grace Bible College
- Estes, Keith** (Diesel)
- Estrada, Jeri** (Director-Human Resources) B.A.-University of Northern Colorado
- Etl, Shayna** (Assistant Golf Coach)
- Eurich, Megan** (Assistant Registrar) A.A.-Northeastern; B.A.-University of Northern Colorado
- Fernandez, Cristina** (Custodian I)
- Fisher, Cathy** (Specialist-Ged)
- Fisher, Chris** (English as a Second Language)
- Fletcher, Jason** (Fire Science)
- Franz, Conni** (Administrative Assistant II) A.S. Data Processing, Champlain College, Burlington, VT
- Fritzler, Sadie** (Career Counselor/Academic Adviser) A.G.S.-Northeastern; B.S.-Colorado State University; M.A.-University of South Dakota
- Gaines, Cory** (Physics) B.S.-University of Colorado at Denver; M.S.-Colorado State University
- Gareis, Martha** (Director-Purchasing)
- Garrett, Jeri** (Math) A.S.-Northeastern; B.S.-Colorado State University; M.A.-University of Northern Colorado
- Gertner, Shane** (Assistant Coach-Softball)
- Giacomini, Jamie** (Adult and Community Education Director) A.A.-Tallahassee Community College; B.A.-Florida State University
- Gilliland, Craig** (Business)
- Gonzales, Thomas** (General & Nursery I)
- Grauberger, Sara** (Nursing) M.S.-Grand Canyon University
- Hadley, Vivian** (Director Foundation)
- Haerr, Kathleen** (Nursing) B.S.N.-Western Governor's University; M.S.-Western Governors University
- Hansberry, Kay** (Accounting Technician III) A.A.S.-Aims Community College
- Harbart, Vernon** (Head Coach-Golf) A.A.-Southeast Community College-Fairbury, NE; B.A.-Park College-Parkville, MO
- Harder, Jessica** (Psychology) B.A.-University of Northern Colorado; M.A.-University of Northern Colorado
- Hastings, Thomas** (Diesel Shop Manager)
- Hazlett, Jason** (Director Renewable Energy/Department Chair) B.S.-Colorado State University
- Heggen, Bruce** (English) Ph.D.
- Heiman, Jennifer** (Administrative Assistant Intern)
- Henry, Marci** (Director-Athletics/Health, Human Performance and Sport/Event Center) A.A.-Northeastern; B.A.-University of Northern Colorado; M.A.-University of Northern Colorado
- Hill, Jason** (Welding) A.A.S. -Southeast Community College
- Hill, William** (Women's Basketball Assistant Coach)
- Hofmeister, Cyndi** (Grant Writer) B.S.-Colorado State University; M.A.-University of Northern Colorado
- Hooton, Kimberly** (Accounting Technician III) A.S.-Southeast Community College-Lincoln, Business Administration
- Howell, Cody** (Fire Science)
- Howell, Gayle** (Assistant Hall Director-Poole)
- Hunker, Silke** (Assessment Coordinator) B.S.-South Dakota School of Mines/Technology; MED-Chadron State College
- Hurst, Darvis** (Custodian I)
- Huss, Dave** (Head Coach-Women's Basketball) B.S.-Wayne State University; M.A.-University of Northern Iowa
- Janes, Virginia** (English) B.A.-University of Colorado
- Johnson, Kodi** (Student Success Specialist) B.S.-Colorado State University; MBA-West Texas A&M University
- Johnson, Krista** (Custodian I)
- Jones, Nicholas** (Music) A.A.-Northeastern
- Kachel, Andrew** (Head Coach-Baseball)
- Kaiser-Ertle, Alexes** (Administrative Assistant II) A.A.S.-Northeastern
- Kelley, Dan** (Pipe/Mechanical Trades II)
- Kelley, Nate** (Sports Medicine/Athletic Trainer) B.S.-Huron University; M.A.-CSU Global
- Kerker, Amanda** (Business) A.A.-Northeastern; B.S.-University of Northern Colorado; M.B.A.-Upper Iowa University
- Kilmer, Beth** (Accounting) A.S.-Northeastern; B.S.-Colorado State University; M.S.-Colorado State University
- Kind, Jody** (Nursing) B.S.N.-Fort Hays State University; M.S.N.-West Texas A&M University
- Kissell, Ashley** (Administrative Assistant, ATC)
- Klein, Dennis** (Education)
- Knox, Tracey** (Director-Physical Plant)
- Knudson, Rachelle** (Lead Developmental Math) B.S.-Regis University; M.A. University of Northern Colorado
- Krager, Michele** (Early Childhood) BD-University of Northern Colorado
- Kraich, Cheryl** (Nursing)
- Kugler, Nancy** (English) B.A.-University of Northern Colorado; M.A.-University of Northern Colorado
- Kunkel, Adam** (Director-Admission/Recruitment) A.A.-Northeastern; B.A.-University of Nevada
- Kuntz, Kelly** (Administrative Assistant II)
- Laible, Rebeka** (Administrative Assistant II) B.A.-Chadron State College
- Lambrecht, Annette** (Music)
- Lamorie, Risa** (Music)
- Lauer, Nate** (Instructor-MEP)
- Learmond, Carnell** (Assistant Women's Soccer Coach)
- Lederhos, Mary** (Nursing) A.A.S.-Morgan Community College; B.S.N.-Fort Hays State University; M.S.-University of Northern Colorado
- Lee, Jay** (President) B.A.-Moorhead State University; Juris Doctor-University of North Dakota
- LeFevre, Lisa** (Vice President-Finance & Administration) B.S.-Colorado Mesa University
- Lenzen, James** (Assistant Director Renewable Energy)
- Lewis, Wendy** (Agriculture Economics) M.S.-University of Minnesota-Twin Cities
- Lewton, Brian** (Business) B.S.-Colorado State University; M.S.-University of Wyoming
- Linn, Sandra (Nursing) BSN Texas Tech, MSN
- Lippstrew, Lee** (Music & Recording) B.S.-University of Colorado; M.A.-University of Nebraska-Kearney
- Lively, Debbie** (Accounting Technician II)
- Mahaffey, Samantha** (Nursing) A.A.S-Morgan Community College; B.S.N.-Chamberlain College of Nursing; M.S.-Western Governor's University
- Maier, Stacy** (Custodian I)
- Marostica, Ashley** (Nursing) B.S.N.-University of Nebraska/ M.S.N.-Regis University
- Matthewson, Cody** (Emergency Medical Services) CER-Northeastern; B.D.-Chadron State College

Matthews, Sarah (Communications Coordinator) B.A.-American InterContinental University

May, Joyce (Art)

McAlpine, Ken (Head Women's Soccer Coach) B.S.-University of Pikeville; M.A.-University of San Francisco

McArthur, Alma (Director-Monahan 2nd Chance Academy) B.S.-Panhandle State University; M.A.-Colorado State University; Ph.D.-University of North Texas

McCracken, Justina (Biology) B.S.-Colorado State University; M.S.-Colorado State University

McFadden, Judy (Controller) A.A.-Northeastern; B.S.-University of Northern Colorado

McKay, Melinda (Custodian I)

McPeake, Lindsey (Assistant Livestock Judging Coach)

Mekelburg, Snow (Administrative Assistant II)

Merkel, Linda (VP Academic Affairs) B.S.-University of West Florida; M.S.-Capital College, Ph.D.-University of Denver

Miller, Miranda (Wellness)

Moe, Kelli (Administrative Assistant III) A.A.-Northeastern

Mollohan, Emily (Adult Agriculture Business Management) B.S.-Kansas State University; M.S.-Kansas State University

Montoya, Lauren (Education to Career Coordinator) A.S.-Northeastern

Moon, Richard (Automotive Service Technology) A.A.S. Northeastern

Morgan, Amanda (Assistant Equine Management Coordinator) B.S.-Colorado State University

Morrison, Suzanne (Music) B.S.-University of Northern Colorado; MAMU-University of Northern Colorado

Moton, Bronson (Assistant Men's Basketball Coach) B.S.-Exercise Science, Health Promotion & Recreation-Colorado State University-Pueblo

Myers, Tom (Head Coach-Softball) A.A.-College of Southern Idaho; B.S.-Colorado State University-Pueblo

Nichols, Shelby (Chemistry) B.S.-University of California at Davis; M.S.-University of Maine; Ph.D.-Colorado State University

Olson, Timothy (Auth/Diesel Shop Manager)

Opyt, Timothy (History)

Osborn, Kristen (Custodian I)

Owens, Erin (Foundation Coordinator)

Patten, Tami (Technology Systems Analyst) A.A.-Northeastern; B.S.-Regis University

Penington, Dante (Criminal Justice) A.A.-Western Nebraska Community College; B.S.-Metropolitan State College of Denver; M.C.J.-University of Colorado at Denver; Ph.D and D.D.-Capella University

Peterman, Layton (Automotive Service Technology) A.A.-Western Nebraska Technical College, ASE Certifications

Phelan, John (Art)

Piel, Amber (Administrative Assistant III) B.S.-Soil & Crop Sciences-Colorado State University

Pollart, Larry (Animal Science) A.A.-Northeastern; B.S.-Colorado State University, M.A.-University of Wyoming

Rahn, Michael (Assistant Men's Soccer Coach)

Rauch, Austin (Structural Trades I)

Reh, Ryan (Athletic Trainer)

Reuszer, Diane (English) B.Ed.-University of Miami, M.Ed.-University of Miami

Rhine, Julie (Cosmetology) Cosmetology License-Bernal School of Cosmetology

Rhodes, Julie (Science Specialist) A.S.-Northeastern; B.S.-University of Northern Colorado

Ritter, Chief Lavon (Fire Science/EMS/Health & Safety Instructor)

Roberts, Maria (Tutor) M.A.-Middlebury College

Roberts, Samantha (Assistant Director-Human Resources) B.S.-Colorado Christian University

Robinson, Nathan (Theater) B.A.-West Texas A&M University; M.F.A.-Rutgers University

Roelle, Kade (Technical Systems Specialist)

Romero, Jimmy (Custodian I)

Rosa, Leslie (Librarian) A.A.S.-Northeastern

Rose, Lyle (Structural Trades II)

Rose, Shawn (President's Executive Assistant) A.A.S.-Northeastern

Ross, Kent (English/Journalism) B.S.-Abilene Christian University; Master of Divinity-Abilene Christian University; M.1-University of Texas-Arlington Ph.D.-Texas A&M University-Commerce

Ross, William (Art) A.A.-Northeastern; B.A.-University of Wyoming; M.A.-New Mexico State University

Rothell, Clint (Philosophy) B.A.-Theological Studies-Biola University; M.A.-Philosophy-Biola University

Rowe, Jamie (Custodian I)

Ruble, Madeleine (Geography) B.S.-University of Montana; M.S.-University of Denver

Salyards, Rylie (Education to Career)

Schaefer, Brian (Event Center Supervisor) B.S.-Health & Wellness-Colorado State University

Schaefer, Lisa (Registrar) A.A.-Northeastern; B.A.-Colorado State University; M.A.-University of Northern Colorado

Schehrer, Greg (Structural Trades II)

Schultz, Paul (Criminal Justice)

Schwarzer, Trenton (Campus Safety & Security Coordinator)

Scott, Bruce (History) B.A.-Colorado State University-Pueblo; M.A.-Grand Canyon University

Shalla, Annie (Director-Fiscal Services) A.A.-Northeastern; B.S.-University of Colorado

Shino, Sharon (Administrative Assistant II) A.A.-Northeastern; B.S.-Colorado Christian University

Skeels, Geneva (Custodian III)

Smith, Mary (Music) B.A.-Bob Jones University; M.A.-Bob Jones University

Smith, Steven (Vice President-Student Services) B.A.-University of South Florida; M.A.-University of South Florida

Stahley, Timothy (Director-Resident Life/Student Activities) B.A.-Oklahoma State University

Stone-Robinson, Sarah (International Student Coordinator) B.A.-West Texas University

Stump, Debora (Anatomy & Physiology/Biology) B.S.-Colorado State University; D.V.M.-Pathology, Doctor of Veterinary Medicine-Colorado State University

Stump, Kevin (Math) B.S.-Fort Lewis College; M.A.-University of Northern Colorado

Thayer, Julie (Early Childhood Education)

Trenkle, Catheryne (Transition Specialist) B.S.-Public Health Education-Idaho State University; M.Ed.-School Counseling-Lamar University

Trenkle, Eddie (Head Coach-Men's Basketball) A.A.-Northeastern; B.S.-Idaho State University; M.P.E.-Idaho State University

Unrein, Ashley (Assistant Director-Financial Aid) B.S.-Colorado State University

Vair, Mike (Math) B.A.-Fort Lewis College; M.S.-Colorado State University
Vorderberg, Jason (Fire Science)
Walker, Debra (Accounting)
Wasson, Andrea (Administrative Assistant III) B.S.-Computer Information Systems-Colorado State University
Weinsheim, Leslie (Coordinator-Institutional Research, Planning & Development) B.S.-Franklin University; M.B.A.-Marylhurst University
Wells, Tony (Emergency Medical Services)
Werner, Doug (Structural Trades II)
Wiest, Gabe (Assistant Women's Basketball Coach)
Wilson, Philip (Custodian I)
Winchell, Shelby (Equine Management) B.S.-Chadron State College
Yahn, Tracy (Coordinator-EMS Fire Training) B.S.-Metro State College of Denver
Yocom, Jill (Event Center Supervisor) B.S.-Colorado State University
Younger, Michelle (Writing Specialist) B.A. Metropolitan State University; M.OL. Colorado Christian College
Youngers, Peter (Art)
Zink, Brenda (Department Chair-Science, Technology, Engineering & Math) A.A.-Northeastern; B.S.-University of Northern Colorado; M.A.-University of Northern Colorado

EMERITI STAFF

Ken Amen – *Professor Emeritus of Equine Science.*
 John "Jack" Annan – *Emeritus Vocational Counselor.*
 *Leo Armstrong – *Professor Emeritus of Science.*
 *Ronald Bailey – *Emeritus Dean of Instruction.*
 Karen Bargell – *Professor Emeritus of Secondary Med-Prep.*
 Pam Berns – *Professor Emeritus of English/Speech/Humanities.*
 *Norman Berry – *Professor Emeritus of Science.*
 *Geraldine Bodkin – *Professor Emeritus of Reading and Study Skills.*
 Ronda Bowey – *Emeritus Director of Student Success/Concurrent Enrollment.*
 Ed Brandt – *Professor Emeritus of Physical Education.*
 Carol Brom – *Professor Emeritus of Emergency Medical Services.*
 Mike Brownell – *Professor Emeritus of Agriculture/Soils.*
 Betty Brunner – *Professor Emeritus of Practical Nursing*
 Bruce Bryden – *Emeritus Dean of Students.*
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 *Dorothy Corsberg – *Professor Emeritus of Humanities.*
 *Jack Dietz – *Professor Emeritus of Psychology.*
 Kala Doane – *Professor Emeritus of Ag Business Management.*
 James Dorland – *Professor Emeritus of Secondary Automotive Technology.*
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 Edith Evans – *Professor Emeritus of Business and Science.*
 *Kent Ewing – *Professor Emeritus of Agricultural Diesel Equipment.*
 Glen Fackler – *Professor Emeritus of Accounting.*
 Maret Felzien-*Emeritus Director, Monahan Learning Center.*
 Don Fender – *Professor Emeritus of Automotive Technology.*
 Patricia Fox – *Emeritus Executive Director for Centralized Services.*
 *Ervin S. French – *Professor Emeritus.*
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 *Lee Gentry – *Professor Emeritus of Business.*
 Judy Giacomini – *Emeritus Vice President of Student Services.*
 *Willie Gore – *Professor Emeritus of Biology.*
 Arlys Hanson – *Professor Emeritus of Mathematics.*

*Zane Hays – *Emeritus Vice President of Instruction.*
 Connie Henderson-*Professor Emeritus of Science.*
 Renee Johnson – *Emeritus Director of Human Resources.*
 *Hilbert Kahl – *Emeritus Dean of Occupational Education.*
 Tammy Kallsen – *Emeritus Director of Human Resources.*
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 Nancy Mann – *Emeritus Study Skills Coordinator.*
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 *James May – *Professor Emeritus of Automotive Technology.*
 Carol McBride-Graybill – *Emeritus ABE/GED/ESL Coordinator.*
 Dr. Allen Meyer – *Emeritus Dean of Adult, Career and Technical Education.*
 Joe Mills – *Professor Emeritus of Humanities.*
 Ronda Monheiser – *Professor Emeritus of Business*
 *Ralph Moyer – *Professor Emeritus of Social Science.*
 Daniel Z. Muggli – *Emeritus Controller.*
 Allen Nelson – *Professor Emeritus of Animal Science.*
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 *Orville Pieper – *Professor Emeritus of Agriculture.*
 Bob Plank – *Professor Emeritus of Business.*
 *Charles N. Podraza – *Professor Emeritus of Mathematics.*
 *Charles F. Poole – *Founding Chief Executive Officer/President Emeritus*
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 Larry Prestwich – *Professor Emeritus of Art/French.*
 Diane Reuszer – *Professor Emeritus of English and Communication*
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 *Lowell Rounph – *Professor Emeritus of Physical Education.*
 Paul Schmidt – *Professor Emeritus of Computer Science.*
 *Merle Sherman – *Professor Emeritus of Business.*
 Lisa Shinn – *Professor Emeritus of Ag Business Management.*
 *Don Short – *Professor Emeritus of Social Science.*
 *Jerry W. Spoon – *Professor Emeritus of English and Philosophy.*
 *C.R. Stasenka – *Professor Emeritus of Music.*
 Jim Stegman – *Professor Emeritus of English.*
 Judy Szabo – *Professor Emeritus of English/Reading.*
 Bart Thiele – *Emeritus Director of Student Life.*
 Cyndi Vandenbark – *Emeritus Director of Academic Technology.*
 Robert Wagner – *Professor Emeritus of English and Music.*
 Debra Walker – *Professor Emeritus of Accounting.*
 Alice Weingardt – *Director of Financial Aid.*
 Darrell Wood – *Professor Emeritus of English.*
 Sheila Worley – *Professor Emeritus of Physical Education.*
 Kent Wright – *Professor Emeritus of Automotive Technology.*
 Peter L. Youngers – *Emeritus Associate Dean of Humanities and Human Services.*
 *Deceased

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NORTHEASTERN CALENDAR FALL 2020

Date	Day	Fall Intercession Term August 10 – August 21, 2020
August 9	Sunday	Move-In Day for Fall Intercession Term 9:00 a.m. – 4:00 p.m.
August 10	Monday	Fall Intercession Term Classes begin
August 11	Tuesday	Last day to Add Classes
August 11	Tuesday	No-Show Deadline
August 11	Tuesday	Last day to Drop (Census Date)
August 19	Wednesday	Last day to Withdraw from Fall Intercession Term classes with “W” grade
August 21	Friday	Last Day of Fall Intercession Term Classes
August 24	Monday	Final Grades Due by 10:00 p.m.
Date	Day	Fall Full Term 2020, August 24 – December 18, 2020
August 7	Friday	Academic Appeals and Financial Aid Appeals Due by 4:00 p.m.
August 10	Monday	Academic Standard Review of Appeals
August 17	Monday	New Faculty Orientation/Registration Day
August 18	Tuesday	A.M.-Office Hours/P.M.-All Staff & Faculty In-Service
August 19	Wednesday	Faculty In-Service
August 20	Thursday	Move-In Day New Students ONLY; Residence Halls Open 9:00 a.m. – 4:00 p.m.
August 21	Friday	Required Orientation for New Students/Registration/Advising
		Move-In Day for Returning Students Noon – 4:00 p.m.
August 22	Saturday	New Student Orientation Day/Activities
August 23	Sunday	New Student Orientation Day/Activities
August 24	Monday	All Classes Begin
August 28	Friday	Last Day to Add classes
August 31	Monday	No-Shows Deadline
September 7	Monday	Labor Day –No Classes
September 9	Wednesday	Last Day to Drop Classes (Census Date)
September 14-18	Monday-Friday	“Early Alert” Grades Due
October 9	Friday	All Fall Graduation Applications Due
October 16	Friday	Mid-Semester Break (No Classes)
October 22	Thursday	Mid-Term Grades Due by 10:00 p.m.
November 4	Wednesday	All Student Advising Day (No Daytime Classes)
		Registration, Spring Semester 2021 Begins for Current Students – 7:00 a.m.
November 11	Wednesday	Discovery Day
November 11	Wednesday	Open Registration for Spring Semester 2021 Begins
November 20	Friday	Last Date to Withdraw Full-Term Classes with “W” Grade
November 20	Friday	Check Out Day – Residence Halls Close at 5:30 p.m.
November 23-27	Monday-Friday	Semester Break/Thanksgiving Holiday (No Classes)
November 29	Sunday	Resident Halls Open at 9:00 a.m.
December 14	Monday	Last Class Day (Day Classes)
December 15-18	Tuesday-Friday	Final Exams (Day Classes)
December 18	Friday	Cafeteria closes at 1:15 p.m.
		Check Out Day – Residence Halls Close at 5:30 p.m.
December 21	Monday	Final Grades Due by Noon

NORTHEASTERN CALENDAR SPRING 2021

Date	Day	Spring Intercession Term, January 4 to January 15, 2021
January 3	Sunday	Check-In Day – Spring Intercession Term Residents ONLY 3:00 p.m. – 5:00 p.m.
January 4	Monday	Spring Intercession Term Classes Begin
January 5	Tuesday	Last Date to Add Spring Intercession Classes
		No-Shows Deadline
		Last day to Drop Spring Intercession Term Classes (Census Date)
January 13	Wednesday	Last Date to Withdraw from Spring Intercession Term Classes with “W” Grade
January 15	Friday	Last Day of Spring Intercession Term Classes
January 18	Monday	Final Grades Due by 10:00 p.m.
Date	Day	Spring Full Term 2021, January 19 to May 14, 2021
January 8	Friday	Academic and Financial Aid Appeals Due by 4:00 p.m.
January 11	Monday	Academic Standards Review of Appeals
January 14-15	Thursday-Friday	In-Service
January 18	Monday	Move-In Day – Residence Halls Open 9:00 a.m. – 4:00 p.m.; Cafeteria opens with Evening Meal
		Academic Advising Day – All Students
		New Student Orientation
January 19	Tuesday	Spring Semester Full Term Classes Begin
January 25	Monday	Last Day to Add New Classes
January 26	Tuesday	No-Shows Deadline
February 3	Wednesday	Last Day to Drop Classes (Census Date)
February 8-11	Monday-Thursday	“Early Alert” grades due
February 15	Monday	Discovery Day
February 18	Thursday	All Spring Graduation Applications Due
February 19	Friday	NO CLASSES – February Break
March 1	Monday	Registration for Summer 2021 begins
March 12	Friday	Residence Halls Close at 5:30 p.m.
March 15-19	Monday-Friday	Spring Break (No Classes)
March 21	Sunday	Residence Hall Re-Open at 9:00 a.m.
March 24	Wednesday	Mid-Term Grades Due by 10:00 p.m.
March 30	Tuesday	Associated Student Government/ASG Elections
April 2	Friday	Discovery Day
April 7	Wednesday	Registration for Fall Semester 2021 begins for Current Students at 7:00 a.m.
April 14	Wednesday	NO CLASSES – Advising Day; A.M. Office Hours – P.M. New Students
April 23	Friday	Last Date to Withdraw Full-Term Classes with “W” Grade
May 10	Monday	Last Class Day (Day Classes)
May 11-14	Tuesday-Friday	Final Exams Day (Day Classes)
May 14	Friday	Cafeteria Classes at Noon
		Commencement Exercises – Bank of Colorado Event Center – 2:00 p.m.
May 17	Monday	Final Grades Due by Noon

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