

# NORTHEASTERN JUNIOR COLLEGE

2016 - 2017  
College Catalog



# Northeastern Junior College 2016 - 2017 Catalog

100 College Avenue  
Sterling, Colorado 80751-2399  
970-521-6600

Established 1941

Web Site: <http://www.njc.edu>



**ACCREDITATION:**

Northeastern Junior College 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.

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2016-2017

If you are reading this letter, it means you are holding in your hands the 2016-2017 Northeastern Junior College catalog and hopefully, that indicates that you have chosen Northeastern as your college. I know I'm a little biased, but I believe joining the Northeastern family is a very wise choice!

At Northeastern we are committed to helping you succeed. We have been in the education business 75 years! We know what it takes to prepare you for your future and we are here to open the doors to future careers and furthering your education. The faculty, staff, and your fellow students will work with you to help you reach your goals. That help comes in the forms of excellent instruction, conscientious advising, and fun student activities. Everything we do is designed to help you be successful in college and life.

It is with that commitment to your success that led Northeastern into becoming the first iPad college in Colorado. As we looked to find ways of improving our service to students and increasing the number of students that successfully complete their degrees and transfer, we looked for ways to more fully engage our students in the learning process. We believe the iPad, as a tool for instructors and students, provides more opportunity for student engagement and we know the more engaged a student is in the learning process the more likely they are to succeed.

At Northeastern, we know the future is very difficult to predict. We also know that a college experience that pushes you to succeed places you in a better position to have the future you want. Your instructors will push you to earn as you learn. At NJC you earn your academic credentials, from the grade in each class, to the certificate in a specific career related program, to the associate degree, to the transfer portfolio that proves you are ready for the next educational challenge. We will be there to help you succeed through every step of the process.

Attending college opens your eyes to a wonderful future. A future where you will know more about yourself, what you are capable of accomplishing, and what you want to be when you grow up (at whatever age that happens). You will meet college employees that sincerely want to help you succeed. You will meet instructors that will have a lifelong impact on how you look at the world. You will also meet fellow students who will become your assistants, your guides, and your friends.

Thanks for joining the NJC family. How can I help you succeed?

Jay A. Lee  
President



“We’re different!”

**NJC STUDENTS HAVE  
EARNED RECOGNITION AS:**

Former Denver Mayor: Wellington Webb

Griffin Foundation Scholarship  
Recipients

Miss Colorado

Miss Colorado USA

Miss Rodeo America

National College Rodeo Finals  
Women’s All-Around Champion  
Team Roping Champion

National FFA Winners

National Livestock Judging Winners

National SIFE Winners

News Anchors/Reporters

Performers in:  
Major Films  
Professional Commercials  
Television Soap Operas  
Broadway/Off-Broadway

Postsecondary Agricultural Students  
National Champions

U.S. Congress

**DISCLAIMER:** Northeastern Junior College 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 NJC website for periodic updates and most current information at <http://www.njc.edu>.

# Contents

**General Information** ..... 4  
Statement of Mission & Purpose, History, Degrees & Certificates, Buildings, Admission Information, Academic Classification, Student Information

**Financial Aid & Scholarships** ..... 12

**Academic Information** ..... 15

**Student Services** ..... 31  
Academic Information, Student Services, Concurrent Enrollment, Counseling Services, Academic Support Services

**General Education and Guarantee**

**Transfer Courses** ..... 45  
Colorado Community College System Guarantee Transfer Courses for General Education, AA/AS Electives, Student Bill of Rights.

**Transfer/Degree Programs** ..... 50  
Degrees and Certificates, Transfer Programs, Programs of Emphasis, Associate of Arts, Associate of Science, Associate of General Studies, CCC OnLine Programs.

**Career and Technical Degrees & Programs** ..... 75  
Agri-Business, Agriculture Business Management, Production Agriculture, Applied Technology, Automotive Technology, Business Accounting, Business Administration, Business Computer Applications, Cosmetology, Diesel Technology, Early Childhood Associate Teacher, Early Childhood Group Leader, Early Childhood Director, Early Childhood Nanny, Emergency Medical Services, Emergency Medical Technician, Equine Business Management, Equine Management, Fire Science, First Responder, Marketing/Management, Nursing Assistant, Associate Degree Nursing, Welding Technology, Wind Energy Technology.

**Course Descriptions** ..... 94

**College Personnel** ..... 140

**Index** ..... 143

# General Information

## MISSION, VISION, PHILOSOPHY & GOALS

### 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

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

### GOALS

- Provide excellence in learning and teaching for transfer, career, and technical education, and personal enrichment.
- Enhance student success and retention by providing comprehensive support services and activities.
- Offer students 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.



*"Colorado's First iPad College"*

## HISTORY

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. NJC 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 Junior College 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 as a result 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, which 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 came to the staff as dean; the title was again 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 Junior College to reflect the 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.

## 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*  
 Biotechnology  
 Business - *Degree with Designation*  
 Chemistry - *Degree with Designation*  
 Communication - *Degree with Designation*  
 Criminal Justice - *Degree with Designation*  
 Early Childhood Education - *Statewide Transfer Agreement*  
 Economics - *Degree with Designation*  
 Elementary Education - *Statewide Articulation Agreement*  
 English - *Degree with Designation*  
 General Science  
 Geography - *Degree with Designation*  
 Geology - *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*  
 Philosophy - *Degree with Designation*  
 Physical Education Teaching/Coaching  
 Physics - *Degree with Designation*  
 Political Science - *Degree with Designation*  
 Pre-Professional:  
 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  
 Pre-Speech Pathology  
 Pre-Surgery Technology  
 Pre-Veterinary Medicine  
 Psychology - B. A. - *Degree with Designation*  
 Psychology - B. S. - *Degree with Designation*  
 Recreation  
 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 Journalism/Communications  
 Animal/Equine Science – Industry Concentration  
 Animal/Equine Science – Science Concentration  
 Range Management  
 General Studies  
 Science

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

Agri-Business  
 Agriculture: Production Agriculture  
 Applied Technology  
 Automotive Technology  
 Business:  
 Accounting  
 Business Administration  
 Entrepreneurship  
 Management  
 Marketing  
 Web Design  
 Diesel Technology  
 Early Childhood Education  
 Emergency Medical Services  
 Equine Business Management  
 Equine Management  
 Fire Science Technology  
 Nursing  
 Welding Technology  
 Wind Energy Technology

Automotive Engine  
 Automotive Transmissions  
 Automotive Electrical  
 Advanced Electrical  
 Steering & Suspension  
 Fuels & Emissions  
 Business:  
 Accounting  
 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  
 Industrial Maintenance  
 Industrial Motor Controls  
 Nursing Assistant  
 Practical Nursing  
 Welding Technology  
 Oxy-Fuel  
 Shielded Metal Arc (SMAW)  
 Gas Metal Arc (GMAW)  
 Flux Cored Arc (FCAW)  
 Gas Tungsten Arc (GTAW)  
 Welding Fabricator  
 Wind Energy Technology  
 Industrial Maintenance  
 Industrial Motor Control  
 Wind Technician Core

## CERTIFICATE PROGRAMS

Agri-Business  
 Agriculture Business Management  
 Agriculture: Production Agriculture  
 Automotive Diesel Master Technician  
 Automotive Technology  
 Automotive Brakes  
 Manual Powertrains  
 Automotive HVAC

## BUILDINGS

Our campus buildings reflect the continuous growth of Northeastern Junior College. The main campus is complemented by the nearby North Campus. Appearance and service are enhanced by landscaping, parking facilities, campus lighting, and well kept streets and sidewalks. 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 North Campus, houses the 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 North Campus houses the secondary Auto and Wind Technology programs and postsecondary career and technical programs.

**Welding Shop** was the first building on the North Campus, completed in 1969, originally housed the Farm Machinery Mechanics Program and now serves the welding program.

**The “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 Library, named for board member and benefactor Rex Monahan, Extended Studies and the Comprehensive Learning Center.

**Seven Residence Halls**, at Colorado’s largest residential two-year campus now offers housing to 611 students. Six 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, and two and four person suites. Some buildings have unique features such as housing of honors students, private restrooms, air conditioning, and gender by wing. Blue Spruce Hall, a very modern residence building, opened Fall 2011 offers 124 beds with the latest in lighting and HVAC technology. Please inquire for details through the college’s housing office.

**Bank of Colorado Event Center**, in October 1998 NJC opened the \$7 million Bank of Colorado Event Center located on the NJC campus 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.

**The Family Literacy Center**, formerly the NJC Child Development Center and Early Learners, Inc., was remodeled in 2008 and currently houses the Adult Basic Education, GED, ESL, and Family Literacy programs.

## ADMISSION INFORMATION

### 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. Students who do not provide these scores are required to take NJC’s assessment test\* prior to registering.

**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 NJC 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/CCPT).

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 will be admitted 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.

\*Assessment testing may be completed through a distance arrangement. Please contact the Student Success Center at (970) 521-6663 for more details.

### APPLYING FOR ADMISSION

Each student desiring admission to NJC 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 Junior College properly completed by the applicant. Students may also apply online at [www.njc.edu](http://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 postsecondary 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.

3. Official high school transcript showing date of graduation and signed by the high school principal, college counselor, or superintendent 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.
5. Assessment test scores - Scores from the American College Test (ACT) or the Scholastic Aptitude (SAT) if available. A student may also take an alternative assessment test if the ACT or SAT has not been taken or if ACT scores are below 23 in math, 18 in English, or 17 in reading or SAT scores are below 450 verbal or 460 math.
6. Students enrolling in the following programs may, but are not required to, submit ACT or SAT test results:
  - Automotive Technology
  - Cosmetology
  - Diesel Technology
  - Production Agriculture
  - Welding

Students in these programs will be subject to assessment testing prior to registering for class.
7. High school students who have attended NJC to take dual credit classes and choose to become full-time students must complete all admission requirements. Contact the Office of Admission at (970) 521-7000 for more details.

#### 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](http://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 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](http://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 proceeding 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 dependant, 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 Admission Office at Northeastern Junior College 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) 521-6952.

### 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 NJC as a first-time freshman.

A student who wishes to transfer to Northeastern Junior College 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 NJC

The college accepts all undergraduate college credits transferred from other regionally accredited institutions of higher education. Transfer credit shall be accepted at NJC 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 NJC, 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 transcribed. Courses with a "D" grade will be accepted and transcribed 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 an NJC 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 was denied, an appeal process exists by contacting the Records Office.

### 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 source 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 and 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 to [www.cccs.edu](http://www.cccs.edu) or <http://higher.ed.colorado.gov>.

### INTERNATIONAL STUDENT ADMISSION

#### Admission of International and Non U.S. Citizen Students

Admission of international students will be considered under the following guidelines. An I-20 form will be issued when the following are received on record and evaluated as acceptable.

The following documents must be provided and requirements fulfilled:

1. An application for admission for international students to Northeastern Junior College. The application must indicate in which semester the student will begin. Fall semester applications and all supporting documents are requested to be on file by July 15<sup>th</sup>. Spring semester applications and supporting documents are requested to be on file by December 15<sup>th</sup>.
2. Official and complete transcripts of all previous secondary and collegiate academic work with certified English translations (if needed).
3. Proof of English proficiency. If student's native language is other than English, student must provide one of the following:
  - a. Test of English as a Foreign Language (TOEFL) showing a minimum score of 475 (paper based) or 150 (computer based) or 52 (internet based). For information contact:  
Test of English as a Foreign Language  
Educational Testing Services  
P O Box 899  
Princeton, New Jersey 08540 USA
  - b. Score of 5.5 on the International English Language Testing System test.
  - c. Michigan Test of English Language Proficiency showing minimum score of 75.
  - d. Recommendations from an accredited

- English Language School with completion of Level 109.
- e. Completion of Level 5 Advanced at an Intensive English Language Center.
  - f. Graduation from an American high school after attending for at least two years or one year and meets assessment test requirements.
  - g. Completion of the STEP examination in Japan with at LEVEL II evaluation or above.
  - h. Special admission waiver approved by the president of the college.
4. Statement of financial support for a two-year program of study at Northeastern Junior College. Federal/state financial aid and tax supported scholarships are not available for international students.
  5. Record of immunizations.
  6. A \$500 non-refundable deposit applicable toward tuition and fees once student actually enrolls in classes.
  7. Proof of medical insurance. All international students are required to have medical insurance in place while attending NJC.
  8. International students must pay their outstanding tuition and fees on the day they register. Failure to comply may result in withdrawal of the student's U.S. Immigration I-20.

Note: International students can be admitted for one (1) semester as "Special Students," after one (1) semester, all regular admission standards must be met. Contact the Office of Admission for further requirements.

Additional I-20 form information:

- Student's country of birth
- Drivers License #
- State or Providence of License

#### Steps for international students to apply:

1. Student applies for admission to college
2. Student provides documentation to college Designated School Official (DSO)
3. DSO creates file in SEVIS (or previous college transfers information in SEVIS) to print an I-20
4. DSO signs and sends student the original I-20
5. Student obtains a passport
6. Student pays SEVIS I-901 fee at: [www.ice.gov/sevis](http://www.ice.gov/sevis)
7. Student makes an appointment with the US Embassy or Consulate to interview for an F1 Visa
8. Consular reviews application, confirms SEVIS fee has been paid, runs security check, interviews student, and potentially grants visa
9. Student arrives in US with passport, visa, and I-20, then receives I-94 card (w/duration of status stamp) at point of entry
10. Student arrives on campus and reports to DSO for updates and confirmation in SEVIS

#### 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.

## 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 NJC 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 NJC Office of Admissions.

### 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 NJC or otherwise provided NJC 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, NJC 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. NJC 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 finds will be as follows:

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

In order for NJC to return the federal funds as calculated, NJC 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 NJC needs to return 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 NJC, 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 student 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 Junior College (NJC) 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 NJC 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 NJC. Financial aid awards will only be made to 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 NJC 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](http://www.fafsa.gov).
  - a. There is a priority date for completing the FAFSA for certain available funds. Those students whose completed applications are on file in the Financial Aid Office by **March 1st** will be considered first for those funds.
  - b. 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 April 1<sup>st</sup> and continue throughout the year.



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**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 time frame. 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 will be 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 in which a student is expected 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 Junior College 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/financial.aid](http://www.njc.edu/financial.aid).

**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 arbitrary 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 6 months after the student leaves school or is enrolled in less than 6 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 <https://dlenote.ed.gov/emnp/index.jsp> 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 NJC scholarships

require some type of application. For a complete description of all NJC Scholarships and appropriate application procedures, please visit the NJC website at [www.njc.edu](http://www.njc.edu). The following is a brief list of scholarship funding sources available:

1. NJC Foundation Scholarships
2. NJC Institutional Scholarships
3. Community Scholarships awarded by NJC
4. Colorado Gear Up 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 30-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.

### **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 and scholarships and application processes and procedures, rules and regulations governing the various programs, payment procedures and cost of attending NJC are available in the Financial Aid Office, Hays Student Center, Room 116 or by visiting [www.njc.edu](http://www.njc.edu) or calling (970) 521-6751 or 1-800-626-4637 x 6800.

# Academic Information

## DEGREES AND CERTIFICATES

Northeastern Junior College 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 Junior College should ask for an evaluation of his/her transcript.

## ACADEMIC INFORMATION

### STUDENTS RESPONSIBILITIES AND 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 Junior College 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.



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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

Academic advising at Northeastern Junior College is an integral part of the larger mission of educating students. The primary purpose of the advising program is to assist students in the development of meaningful educational plans that are compatible with their goals. The ultimate and final responsibility for making decisions about goals and educational plans rests with the individual student. The academic advisor assists by helping to identify and assess alternatives and consequences of decisions.

Each full time student at NJC is assigned an academic advisor and is expected to personally meet with that advisor for academic planning prior to each semester registration for courses. The Student Advisor Check List requires students to:

- Know and meet graduation requirements
- Meet with their advisor during registration period
- Meet with advisor for discussion/approval of course schedule changes
- Make frequent advisor contact to help ensure adequate progress toward educational goals
- Request changes in faculty advisor when necessary by contacting the appropriate academic division
- Identify and communicate career goals/plans to advisor

### ASSESSMENT AND PLACEMENT FOR SUCCESS

In accordance with Colorado State Board Policy, if you are entering college for the first time, you are required to take an assessment or placement test. This test will help determine what college courses you will take based on your skill levels in English, reading and math.

You may be exempt from testing if you provide the following to NJC:

- Evidence of an Associate of Arts or Associate of Science degree of higher
- Evidence of a C or higher in prior college-level English and math courses
- Qualifying ACT or SAT scores less than five years old
- Qualifying approved placement scores that are less than five years old

Other exemptions from placement testing may include:

- IB or AP high school course work
- CLEP or DSST exams
- Accuplacer College Placement Test Scores
- Community College Placement Test (CCPT) Scores
- High School GPA
- Prior College Course Work

## REGISTRATION & STUDENT RECORDS INFORMATION

### COURSE REGISTRATION

When students have completed the admissions requirements they are eligible to enroll at Northeastern Junior College. 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, printed each semester, provides critical information concerning each course: when and where the course meets, the instructor, and the cost. Registration information is mailed to all postal patrons several weeks prior to semester registration. Class schedules and registration information are also available on the Northeastern Junior College Website at [www.njc.edu](http://www.njc.edu).

Northeastern Junior College has four registration methods: in person, mail, fax, and web.

### SEMESTER SYSTEM AND TERM DATES

Northeastern Junior College 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 an optimum enrollment. The summer term is an integral part of the yearly calendar and is designed to provide continuous educational opportunity through a comprehensive term of offerings. It provides additional opportunity for the high school graduate to adjust to college level work in a relaxed summer environment.

### TERM DATES

The start and end dates for the three terms are as follows:

Spring: January 1 - May 15  
 Summer: May 16 - August 15  
 Fall: August 16 - December 31

### 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 adds for a registered student. 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.

If a student chooses to repeat a course he/she must submit a repeat class form to the records office. The new course must have the same number of credits as the original course.

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.

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 Counseling Office.

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 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 and course instructor does not feel that the registration is warranted, the student may appeal via the college's designated appeal policy.
- If a student has taken a course three times and wants to register for the course a fourth time, the student must 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 students "Access NJC" 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 date. 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 students "Access NJC" web page.

**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 are withdrawn from. Students can also withdraw from a class through NJC 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 Junior College - 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 NJC 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 Junior College - 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 NJC students to apply for establishment of a new academic record. A student may be granted a "Academic Renewal" only once and if approved by the Academic Standards Committee and accepted by the student, the decision will be final.

Call 970-521-6608 for additional information and clarification on this procedure.

#### Eligibility

1. A student who has an academic record with courses older than two (2) years from the current date is eligible for an Academic Renewal.
2. A student must have all financial and department 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 6 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 NJC Records Office for a 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 NJC 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 grade point average.
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 Junior College 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
- 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 Junior College assumes no liability that may arise out of its compliance with a request that such information be withheld. It will be assumed that the failure on the part of the student to request the withholding of directory information indicates the student's consent to disclose.

Any questions concerning the student's rights and responsibilities under the Family Educational Rights and Privacy Act should be referred 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 can not 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 Junior College 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**

Learning is best served through 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 syllabi 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.
  - a. 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.
  - b. 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 require instructor's approval.

### **TEST AND EVALUATION ASSESSMENTS**

Each student will comply with all course evaluations as required.

### **PLAGIARIZED MATERIALS, CHEATING OR FALSIFYING AND 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 Junior College 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.

\*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.

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 Academics Services, the Vice President of Student Services, the Director of Student Records, 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 NJC Judicial System. Please refer to the NJC 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.

Note: The Vice President of Academic Services 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 Junior College 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 will be 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.

### **ADMINISTRATIVE WITHDRAWAL FROM A CLASS**

An approved representative of the college reserves the right to withdraw a student from a class, without a student's approval or signature, based upon documented and reasonable information indicating, but not limited to, the following: (1) persistent and continued non-attendance for personal, health, legal, or other reasons, to such an extent that passing the course(s) is not possible; (2) disruptive and/or discourteous behavior in the classroom that continues to prevent other students from obtaining an education; (3) course assessment that indicates the student's current level of skill performance does not meet the course entrance requirements; (4) failure to obtain all required supplies, materials, and textbooks.

Note: The approved college representative must complete the required withdrawal forms within the college withdrawal deadlines for class or classes and for that enrolled term. The college will make every effort to communicate the Administrative Withdrawal to the student. This act does not remove/defer or reduce any incurred financial obligation due to the college.

## **CCC ONLINE**

### **COLORADO COMMUNITY COLLEGE ONLINE (CCC ONLINE)**

Colorado Community Colleges Online (CCCOonline) is comprised of thirteen member colleges in the Colorado Community College System (CCCS).

Through CCCOnline students can earn fully accredited Associate of Arts degrees, Associate of Science Degree, Associate of Applied Science Degrees, and Certificates in various disciplines. The degrees and courses available are fully accredited and recognized

by all member institutions of CCCS and are accredited by North Central Association of Colleges and Schools.

Currently CCCOnline offers over 275 courses in the following certificate, degree emphasis, and general education areas: Accounting, Agricultural Business, Building Code Enforcement, Business, Criminal Justice, Computer Information Systems, Early Childhood, Education, Emergency Management Planning, Library Technician, Occupational Safety, and Paralegal. New areas of emphasis are continually being added.

Students can find more information by logging in at [www.ccconline.org](http://www.ccconline.org), calling 1-800-801-5040, or scheduling an appointment with your NJC 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.

### **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, Agri-Business, Early Childhood Professions, Production Agriculture, and Equine Management. These courses have special credit hour and clock hour designations.

<b>MINIMUM CLOCK HOURS REQUIRED</b>	<b>SEMESTER CREDIT HOURS</b>
320	8
200	5
160	4
80	2

One credit will be 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 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 fast-track 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 experienced based learning that has been attained outside the sponsorship of accredited postsecondary 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)
  - d. Kaplan
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:
    - i. The learning is demonstrable
    - ii. Includes both theoretical and applied components
    - iii. Are at the college level, and
    - iv. Are equivalent to specific college course or courses in the student's program of study

To be eligible to apply for PLA:

- You must be an NJC student
- PLA credit must be directly applicable to your declared certificate or degree program as outlined in the NJC catalog
- Prior learning must be demonstrated and cover specific core competencies
- It is the student's responsibility to determine the transferability of PLA credits outside the Colorado Community College system
- Your NJC transcript will show class credit only; no grades are assigned to PLA credit
- You may receive PLA credit in any amount not to exceed 75% of the total credits required for your degree or certificate
- A student seeking PLA credit must contact the NJC Student Success Center to start the process

### COLLEGE TRANSCRIPTS

Official cumulative permanent records must be established and maintained for all students who have been awarded credit from prior learning experiences. Official NJC 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 NJC 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 Junior College 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.

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 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 in the Office of Records, the advisor, and from respective Department Chair Offices.

### 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 NJC, and earn a 3.5 or better cumulative grade point average at the institution. Only college level courses completed at the institution will be included in the GPA calculation. The three levels of recognition are defined as follows and will be posted on the student's transcript.

Cum Laude ("with honor") 3.50 to 3.749 Cumulative GPA

Magna Cum Laude ("with great honor") 3.75 to 3.99 Cumulative GPA

Summa Cum Laude ("with highest honor") 4.00 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 Junior College, 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 PIN number.

**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. The following summary specifies those grading regulations with which the veteran must be in compliance.

### 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 course
S/B	-	Satisfactory (B-Level) work in a developmental course
S/C	-	Satisfactory (C-Level) work in a developmental course
U/D-	-	Unsatisfactory (D-Level) work in a developmental course
U/F	-	Unsatisfactory (F-Level) work in a developmental course
W	-	Withdrawal
AW	-	Administrative Withdrawal (available as an individual college option)
AU	-	Audit

### Place Holders

SP	-	Satisfactory Progress
Z	-	Grade not yet reported
R	-	Repeat Field
CPL	-	Prior Learning Credit
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.
- 8a. If using paper contract/form, faculty must list default grade and include appropriate signatures.  
OR
- 8b. 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).  
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.
9. Instructor Signature and Date.
10. 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 a F grade. If the student would have earned a letter grade higher than a 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.

### S - 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 courses. 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 courses. 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. These grades will also be used for PED classes.

### 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 is required to provide the last date of attendance for each student who is assigned this grade.

### Last Date of Attendance

Faculty is required to provide the last date of attendance for each student who is awarded an F or U/F grade. In addition, if faculty assign a W then last date of attendance is also required. Faculty who administratively withdraw a student must provide the last date of attendance or academic activity.

### 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 the 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 is awarded upon the Registrar's receipt of the grade.

### R - Repeat Field

The Repeat Field on the 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 - "W" 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 carry any quality points. Therefore, S/U grades 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 .... 16

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, although required, 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. GPA's 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 Comprehensive 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 Junior College promotes and encourages scholastic achievement. Students who achieve a Term Grade Point Average (TGPA) of 3.75 or higher while carrying a minimum of twelve 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 twelve 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.

Athletic Scholastic Honors are given to students carrying a minimum of twelve credits with a cumulative grade point of 3.5 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.
3. 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 un-fair and was not based upon current college grading practices then a request for a formal resolution can be filed.

- 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 Academic Vice President have reviewed the grade change request if the instructor of record is no longer employed by NJC.

### 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

- The student can appeal the decision of the instructor by obtaining a Grade Change Petition from the NJC Records Office. The Grade Change Petition must be initiated within the first ten (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.
- The Registrar will review the appeal and research the files for materials pertaining to the class and grade involved. The record staff 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 (5) days of the request.
- 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.
- The student may appeal the Department Chair's decision to the Vice President of Academic Services. This appeal must include the Grade Change petition and significant and mitigating reasons for the continued appeal. The Vice President of Academic Services will confer with the President and will respond in writing within ten (10) days of receiving the Grade Petition.
- 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 (3) faculty representatives, two (2) professional staff, and three (3) 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 (10) days of receiving the Grade Petition.

The President will respond to the student's appeal within five (5) days of receiving the Hearing Board's recommendation. The President's response is final.

## ACADEMIC STANDARDS

### Application

For students who have completed fewer than 9 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 9 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 will be used to calculate term and cumulative GPA's. 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 will be abbreviated as CGPA.  
Term Grade Point Average will be abbreviated as TGPA.

### Practice Standards:

#### Initial Standing

Student has attempted fewer than 9 cumulative credit hours with a CGPA => 2.00 for all classes completed.

**Academic Alert**

Student has attempted fewer than cumulative 9 credits with a CGPA < 2.00 for all classes completed.

**Good Standing**

Student has attempted at least 9 cumulative credit hours and has a CGPA => 2.00 for all classes completed.

**Probation**

Student has attempted at least 9 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 2.0. 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 2.0 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 2.0 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:**

- Summer term may not be used as a "suspension term".
- 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.
- Initial suspension is for one term, excluding summer term.
- A second suspension is for two terms, excluding summer term.
- 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.
- A third suspension is for two full years or 4 academic terms, excluding summers.
- 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:**

- Students may appeal their suspension based on procedures identified in the NJC Academic Standards Handbook.
- If the student's suspension appeal is approved the student will be placed on Academic Probation.
- 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.

- The student needs to check with NJC Student Services regarding enrolling for summer term classes.

**Academic Appeal Procedure.** Any student who is suspended for the next enrollment 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 seven (7) days prior to the next registration day.

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 of the re-admittance requirements.

Any re-admitted student who shows no academic progress (more than two D or F grades at midterm) based upon the mid-term report of the re-admit term will be administratively withdrawn and placed on two (2) semester suspension.

## CREDIT COMPLETION STANDARDS

**Application**

For students who have attempted fewer than 9 credit hours the college will monitor credit completion through an Alert process. These students are not subject to the Credit Completion Progress guideline.

Credit Completion Progress standards apply to all students who have attempted 9 or more credits at a CCCS college, regardless of the number of term credits they attempt from that point forward. Credit Completion Progress standards shall be applied consistently and uniformly within each CCCS institution. All colleges will determine Credit Completion Progress standards following the posting of the majority of term grades for each semester. Students placed on warning 1, warning 2, or warning 3 will be notified of their status. Credit Completion Progress status will be maintained in the student information system. Students placed on a warning status will be notified via their college portal. Colleges may choose to notify students of their status via other methods as well. The Credit Completion Progress status of a student is specific to the home institution and does not impact a student's enrollment at other CCCS colleges.

**Principle**

Designates a practice for measuring and notifying students of their credit completion rate.

**Guideline**

Recognizing the value of credit completion for all students with regards to retention, transfer, and credential attainment the Colorado Community College System (CCCS) has established the following practice and procedures for measuring and notifying students of their credit completion progress. This procedure is intended to be informational and helpful, but also establishes clear standards of credit completion 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 Alert and Retention strategies with regards to credit completion progress.

**Definitions:**

Credit Completion Progress: will include all credit bearing classes (developmental and college level) and will be used to calculate the percent of attempted credits passed. This includes summer term courses.

Only courses taken "in residence" will be used for this calculation; "In residence" means taken at the students home institution. Courses taken elsewhere and transferred in do not apply. The credit completion rate for this procedure will not necessarily match those used for financial aid purposes or athletic eligibility.

Grades considered to be passing when computing the percent of attempted credits passed are as follows: A, B, C, D, S/A, S/B, S/C, and S.

Grades considered to be failing when computing the percent of attempted credits passed are as follows: I, F, U/D, U/F, W, and AW.

Course Completion Rate is calculated by dividing the total attempted credits by the number of credits successfully completed as per the definitions above.

**Practice Standards:**

Initial Standing

Student has attempted fewer than 9 cumulative credit hours will not be assessed for credit completion.

Good Standing

Student has attempted at least 9 cumulative credit hours and has a cumulative course completion rate of at least 50%.

Warning 1

Student has attempted at least 9 cumulative credit hours and has a cumulative course completion rate of less than 50% for the first time.

Warning 2

Student has attempted at least 9 cumulative credit hours and has a cumulative course completion rate of less than 50% for the second time.

Warning (Continued)

If a student on Credit Completion Probation passes 50% or more of their attempted term credits, but fails to raise their cumulative completion rate to 50%, they will be allowed to continue the next term, but will remain on Credit Completion Probation.

Warning 3

Student has attempted at least 9 cumulative credit hours and has a cumulative course completion rate of less than 50% for the third time.

**Warning Rules:**

- Students on Warning 1 will receive a communication regarding their credit completion status and will be given information on resources, best practices, etc.
- Students on Warning 2 will receive a communication regarding their credit completion status and will have a credit completion hold (which will impact registration) placed on their student account at their home college. The student will not be able to make any changes to their student account until they meet with an advisor.
- Students on Warning 3 will receive a communication regarding their credit completion status and will have a credit completion hold (which will impact registration) placed on their student account at their home college. The student will not be able to make any changes to their student account until they meet with an advisor. The college reserves the right to limit the number of credit hours that the student may take when a student is on Warning 3 status.

**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 will be scheduled for up to eight (8) weekly success appointments or enroll in a student success seminar as determined by the counseling staff.
2. The student will be assigned to weekly study skills assistance in the Comprehensive 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 Comprehensive 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 counselor 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 counselor'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 counselor, 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. Summaries of NJC's standards are listed on page 23.

**ACADEMIC PROGRESS – SUMMER TERM**

A first year student on academic suspension, regardless of 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 5 credit hours or more, the suspension will be changed to academic warning. The student could continue the next academic term on academic warning.

**ACADEMIC ASSESSMENT PROGRAM**

General education at Northeastern Junior College 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 four core competencies identified by the Assessment

Steering Committee and faculty at Northeastern Junior College: Communication, Inquiry/Analysis, Cultural and Civic Engagement, and Quantitative Literacy. Therefore, students who graduate from NJC will demonstrate proficiency in the following core competencies:

**Communication (formerly *Written Communication and Oral Communication*)**

Graduates will demonstrate the ability to read, write, and speak effectively.

Learners will exhibit the ability to effectively and constructively communicate in written, verbal and digital exchanges with others. Students will also exhibit the ability to inspire, to organize and guide others in a diplomatic fashion in the capacity as leader. The successful learner will be able to:

- \* Construct effective written/digital and oral communication using content, organization and delivery techniques that convey accurate, concise and complete information appropriate to topic, audience, occasion and purpose.
- \* Demonstrate proficiency in formal writing, including correct use of a designated style of source of citation, such as APA or MLA.
- \* Demonstrate proficiency in the use of Standard Academic English, including proper spelling, grammar, and punctuation.
- \* Construct appropriate messages for a variety of contexts/situations.
- \* Access needed information effectively and efficiently, and evaluate sources and information correctly.
- \* Use interpersonal and problem solving skills to influence and guide others toward a goal.

**Inquiry and Analysis (formerly *Critical and Creative Thinking*)**

Graduates will demonstrate the ability to interpret, evaluate, and analyze and synthesize information to make informed conclusions/judgments..

Learners will demonstrate the ability to recognize problems, assess challenges, and determine a course of action to navigate around obstacles pertaining to their college education and life experiences. The successful learner will be able to:

- \* Demonstrate proficiency in the comprehension, analysis, and interpretation of multidisciplinary texts.
- \* Support claims with relevant and credible evidence.
- \* Respond to bias; be fair-minded.
- \* Apply accurate and logical analysis to achieve desired outcomes.
- \* Formulate solutions to problems by separating information into component parts, determining the relevancy of data, evaluating facts and inferences and recognizing logical fallacies in reasoning.
- \* Evaluate alternative viewpoints and arguments.
- \* Gather and assess relevant information after generating vital questions and problems.

- \* Evaluate and assess printed and digital sources for validity.

**Cultural and Civic Engagement (formerly *Globalization/Ethics/Diversity/Self-Awareness*)**

Graduates will demonstrate knowledge and application of principles of cultural and civic responsibility and engagement.

Learners will view themselves as connected to local and global communities where they participate in activities that address issues of public concern. The successful learner will be able to:

- \* Define issues, pose, probe, and solve problems with an awareness of and inclusion of the diverse values and interests.
- \* Demonstrate literacy concerning a range of global issues and belief systems.
- \* Develop attitudes central to lifelong learning: openness, flexibility, intellectual curiosity, and a broad perspective that values diversity of thought.
- \* Demonstrate appropriate social skills in group settings, listening and being receptive to others' ideas and feelings, effectively contributing ideas, and demonstrating leadership by motivating others to accomplish a shared goal.
- \* Act purposefully, reflectively, and ethically in diverse and complex environments.
- \* Analyze the divergent views of others and interpret behaviors without making stereotypical or prejudicial judgments.
- \* Appreciate the integrity and uniqueness of interactions among diverse social and cultural groups.

**Quantitative Literacy (new *GEO*)**

Students will apply math to situations common in everyday living.

Learners will demonstrate confidence in mathematics, logical thinking, decision making, mathematics in context, number sense, practical skills, prerequisite knowledge, and symbol sense. The successful student will be able to:

- \* Demonstrate competence in basic mathematical functions.
- \* Estimate and judge the reasonableness of numerical results, think proportionally, and analyze statistically.
- \* Interpret and apply data in various forms (e.g. charts, graphs, spreadsheets) using appropriate technology.
- \* Manipulate and analyze numerical data/ observable facts and arrive at an informed conclusion.
- \* Test claims, theories, and hypotheses.
- \* Recognize and weigh uncertainty.

# Student Services

## STUDENT SERVICES

Student Services at Northeastern Junior College 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, counseling, and health services, financial assistance, student activities and student government. The college encourages and promotes participation and utilization of the following activities and services.

### STUDENT SERVICE CAMPUS LOCATION/PHONE

#### **Vice President Student Services:**

Policy development, student judicial affairs, staff supervision, enrollment management, and student advocacy.

Hays Room 120, extension 6657

#### **Activities:**

Associated Student Government (ASG), Campus Activities (CAB), Senate, all student programs, and campus activities.

Hays Student Center Room 120, extension 6655

#### **Admissions:**

New student admitting process and campus visits.

Hays Student Center Room 137, extension 7000

#### **Student Success Center:**

Academic advising, counseling, career planning, assessment/placement testing, ombudsman, transfer advising, and concurrent enrollment.

Hays Student Center Room 132, extension 6663

#### **Financial Aid:**

Student financial assistance, scholarships, grants, loans, and work study.

Hays Student Center Room 116, extension 6751

#### **Food Service:**

Contracted operation for cafeteria.

Hays Student Center, Pete's Retreat - snack bar

Phone - 522-9063

#### **Residence Life:**

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

Hays Student Center, Room 120, extension 6608

#### **Intramurals:**

Fall, winter, and spring activities for all students.

Bank of Colorado Events Center, extension 6614

#### **Records:**

Registration/add/drop/withdraw of courses, grade processing, official transcript issuing, graduation/commencement, transfer credit evaluations, graduation evaluations, and major changes.

Hays Student Center Room 116, extension 6700

#### **Bookstore:**

Textbooks, supplies, clothing, and gifts

Hays Student Center Room 127, extension 6678



*“Colorado’s First iPad College”*



## 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 housing policy are:

1. Over twenty-one years of age
2. Married
3. Have minor dependent children
4. Commuting to NJC from a parent or grandparent'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 (8), sixteen (16), or thirty-two (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: ten(10) meals plus 150 flex points, fourteen (14) meals plus 100 flex points or nineteen (19) meals plus 50 flex points. Second year students may also choose between block meal plans that last the entire semester. Seventy five (75) block meals plus 150 flex points and one hundred (100) block meals plus 100 flex points are those options. 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 postsecondary 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.

Returning residents are given first consideration in the room

assignment process. New residents are assigned to rooms and halls according to the preferences on their application. All requests for specific room assignments will be granted on a first-come first-served priority. If the initial requested room/hall cannot be granted the housing office will attempt to accommodate the student's second room/hall preference. Students in need of housing after all available rooms have been reserved will be placed on a "waiting list" and will be contacted as rooms become available. Priority will be given to students at the top of the waiting list without transportation.

**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 NJC 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 Junior College 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 2.0 CUM GPA. Incoming freshmen will have a year to show sufficient academic progress for continued residence on campus.

## **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 Junior College 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 Junior College 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 Junior College 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 Junior College 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**

#### **Aggies.** (Post Secondary Agriculture Students)

Contact Person: Kelly Huenink 521-6782/Larry Pollart 521-6640.

#### **Ambassadors.** Contact Person: Adam Kunkel; 521-6952.

#### **Art Club.** Contact Person: Will Ross; 521-6710.

#### **Associated Student Government.** Contact Person: TBD; 521-6655.

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

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

#### **Business Club.** Contact Person: Amanda Kerker; 521-6744.

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

#### **Choir/Jazz Choir.** Contact Person: Celeste Delgado-Pelton; 521-6754.

#### **Cosmetology.** Contact Person: Julie Rhine; 521-6734.

#### **Criminal Justice.** Contact Person: Dante Penington; 521-6704.

#### **Crossroads.** Contact Person: Kelly Huenink 521-6782.

#### **Diesel Power Club.** Contact Person: Jimmy Atencio; 521-6693.

#### **Equine Club.** Contact Person: Cole Briggs; 522-6913.

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

#### **Honors Program.** Contact Person: Stanton Gartin; 521-6650.

#### **Intramural Sports.** Contact Person: Jill Yocum; 521-6621.

#### **Livestock Judging.** Contact Person: Randell Von Krosigk; 521-6638.

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

#### **Music Groups.** Contact Person: Celeste Delgado-Pelton; 521-6754.

#### **New Voices Literary Magazine.** Contact Person: Kent Ross; 521-6796.

#### **Nursing.** (ADN) Contact Person: Julie Brower; 521-6707.

#### **Outdoor Recreation.** Contact Person: Dave Coles; 521-6753.

#### **Peer Helpers.** Contact Person: Cindy Carey; 521-6676.

#### **Phi Theta Kappa (PTK).** Contact Person: Deb Walker; 521-6736.

#### **Residence Life.** Contact Person: Chelsea Blumenshine; 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.

#### **Students Over Traditional Age (SOTA).** Contact Person: Cindy Carey; 521-6676.

## INTRAMURALS

**Intramural Sports.** (Competition within the student body) are set up on a team, dual, and individual basis. They 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 Junior College is a member of the Region IX of the 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. Initial advising can be done in the Student Success Center; 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 test) 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
- Assignment of a faculty advisor for guidance in future semesters
- Assistance with changing a course of study or faculty advisor
- Advising on classes when a faculty advisor is not available

### COUNSELING

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 personal counseling services and will refer to community services when necessary.

### CAREER COACH

The Career Coach assists students with clarifying their career goals, choosing the NJC 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 counseling (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.

### PEER HELPERS

The Peer Helpers are NJC students who are trained to help other NJC students with everyday personal and college life problems. They present educational programming on healthy lifestyle issues throughout the academic year. New members are selected at the beginning of each fall semester.

### OMBUDSMAN

The ombudsman is a designated neutral or impartial dispute resolution practitioner whose main function is to provide confidential and informal assistance to NJC students. This position is responsible for providing a consistent, centralized point of contact for questions, concerns, and/or problems that students may experience in a college environment. This position supplements, but does not replace, the Colleges' existing resource for formal conflict resolution.

### CREDIT FOR PRIOR LEARNING

Prior Learning is non-college or experience-based learning that has been attained outside the sponsorship of accredited postsecondary education institutions. Credit for Prior Learning (CPL) 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. CPL is not awarded for EXPERIENCE, but for college-level LEARNING which entails knowledge, skills, and competencies that students have obtained as a result of their prior learning experience. For more information please see Academic Degree Requirements.

### BEHAVIORAL INTERVENTION TEAM

The Northeastern Junior College Behavioral Intervention Team (BIT) is a trained group of caring NJC 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 NJC BIT is made up of the following campus personnel: Steve Smith, Vice President of Student Services; Cindy Carey, NJC Counselor; Scott Thompson, Liberal Arts Division Chair & Psychology Instructor; Misti Pierce, Director of Academic Support Services; and the Director of Residence Life & Student Activities.

For more information call Steve Smith, Vice President of Student Services, at 970-521-6657.

### ORIENTATION WELCOME LEADERS

Northeastern Junior College Welcome Leaders (OWLs) are a select group of reliable, energetic, and fun students who serve as NJC representatives to new students and their families during Registration Days and Welcome Week. Our goal is to introduce new students and their families to the resources that help create a smooth transition to NJC.

### RETENTION SPECIALIST

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

### TESTING CENTER

The testing center administers placement testing, credit for prior learning, and certification tests to students and the community.

## CONCURRENT ENROLLMENT FOR HIGH SCHOOL STUDENTS

Northeastern Junior College'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 ACT, SAT or Accuplacer/CCPT 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.

School districts will pay tuition for concurrent enrollment courses. 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 NJC to develop a postsecondary educational plan.

All courses administered through NJC'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 NJC or can be transferred to another college or university.

For more information about NJC's concurrent enrollment program contact the Student Success Center at 970-521-6663.

### HEALTH SERVICES

The Family Care Clinic serves NJC students. It is located at 615 Fairhurst in Sterling. 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 them at (970) 521-3223.

## COMPREHENSIVE LEARNING CENTER

The Comprehensive Learning Center (CLC), located on the first floor of Monahan Library, meets the individual academic needs of any Northeastern Junior College student. The CLC staff is committed to the success of each and every student regardless of major or subject area.

The CLC provides academic and personal support services to approximately 1,300 students each year including preparatory classes, workshops, study groups, personal tutoring, accommodations for disabilities, adult basic education, general equivalence diplomas, and English as a Second Language instruction.

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 NJC campus. Student Learning Assistants, 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 AND PEER-LED TUTORING

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. NJC also provides peer-led tutoring, based on the

Supplemental Instruction model. Peer-led tutors are upper-level students who have succeeded in the course, spend time in the class each week, and lead interactive workshops on the material covered, providing just-in-time assistance to students.

### WORKSHOPS

Workshops offered in the Comprehensive 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.

### PLACEMENT FOR SUCCESS

Northeastern Junior College has adopted the Placement for Success program which strives to ensure that all NJC students are placed in classes appropriate to their skill level. NJC utilizes the Accuplacer/CCPT computer program to assess students reading, writing, and mathematics competence.

This system is especially important to the Student Success Center because Accuplacer/CCPT results often place students in the developmental Math and integrated reading and writing courses listed below.

### DEVELOPMENTAL CLASSES

These courses are designed to prepare students to succeed in all areas of their studies during their time at NJC and beyond:

AAA	50	Semester Survival
AAA	75	Quantitative Literacy Lab
AAA	76	Algebraic Literacy Lab
AAA	77	Skilled Trades Math Lab
AAA	79	Career Math Lab
AAA	95	Math Helps
AAA	101	College 101: Student Experience
AAA	109	Academic Achievement Strategies
CCR	91	Composition and Reading Lab
CCR	92	College Composition and Reading
CCR	94	Studio 121
MAT	50	Quantitative Literacy
MAT	55	Algebraic Literacy

Credits earned in developmental courses do not count in the calculation of the academic grade point average or toward transfer degree requirements and must be taken in excess of required credits. These credits are, however, used to qualify for fulltime student status, financial aid and athletic eligibility.

### READING PREREQUISITES

The majority of college classes require a high level of reading skill. Research conducted by the CLC shows that students have a substantially better chance of success in these classes when they read at an appropriate level. Examples of reading intensive courses include:

- Animal Sciences
- Intro to Business
- Astronomy I & II
- General College Biology I

- English Composition I & II
- General Psychology I & II
- Human Growth & Development
- Intro to Sociology I & II

A complete list of the classes is available in the CLC. Students are advised to take these classes only if their Accuplacer/CCPT reading scores are appropriate or if they have completed their required CLC reading courses.

### ACCOMMODATIONS FOR DISABILITIES

Northeastern Junior College is committed to serving students with disabilities. The CLC'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 CLC.

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.

### ADULT BASIC EDUCATION AND 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 program 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.

The CLC's 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 NJC. Contact 970-521-6761.

### 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.

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

## MONAHAN LIBRARY

The Monahan Library, located in Knowles Hall, houses a comprehensive collection of approximately 35,000 published and recorded items to help students 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 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 NJC web page. Material not owned by the Monahan Library can be ordered electronically through interlibrary loan. Periodical articles are generally procured within 2-3 business days. In addition, courier deliveries provide expedient shipment of interlibrary loan books and other materials from surrounding libraries. Interlibrary loan services are free to NJC 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 CLC staff to facilitate learning resources and services.

## THE STUDENT JUDICIAL SYSTEM

### PHILOSOPHY AND RATIONALE

All students at Northeastern Junior College 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 Junior College will be treated with fundamental fairness in all academic and judicial processes that involve college policy. When a student enrolls at Northeastern Junior College 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 well being 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 receive promptly 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.

**DIVERSITY/NON-DISCRIMINATION**

Our Commitment to Diversity - Northeastern Junior College 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 - NJC is an equal opportunity educational 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 accommodation 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 Comprehensive Learning Center at 970-521-6679.

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

**CODE OF STUDENT CONDUCT**

**a. 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 Junior College, 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 Junior College 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 NJC 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 at any function authorized or supervised by the college and/or in state owned or leased vehicles.

## 10. Dress &amp; 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 individuals 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 the themselves, other students, faculty, or 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 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 (7) 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 NJC 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 NJC 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 rehearings 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 students enrollment status and on campus residence.
- e. Interim Action:** is outlined in College Sanctions.

#### **SAFETY & SECURITY ON CAMPUS**

The college relies on the Sterling Police Department to support a safe and well-ordered environment in which all students, staff, and community guests can pursue their educational and personal goals. NJC staff is committed to honoring each person's rights, showing respect for all individuals, and to uphold the law while striving for quality service and always acting with the highest integrity.

The college has made provisions to preserve and protect individuals and property by securing buildings, locking and supervising residence halls, supervising activities, providing security phones at each residence hall main entrance, and continuing monitoring of campus lighting. Nothing can improve personal safety and security better than each individual's own prudent and reasonable actions. Take time to investigate how to access emergency services such as police, fire, and ambulance. Learn about the safest and quickest routes exiting any campus building. Know how and who to report unsafe conditions and the conduct of others that are dangerous to themselves and others. Personal awareness and current campus information is your best protection against crime and accidents.

In compliance with the Student Right to Know and Campus Security Act of 1990 NJC publishes annual Student Right to Know and Campus Safety Reports. These reports include explanations of campus security support that exists, emergency procedures and phone numbers, procedures regarding access to campus, drug free and alcohol free campus, sexual harassment/sexual assault prevention/response program, and procedures for reporting unsafe incidents/situations of concern. Campus Crime

and conduct violation statistics are provided. The reports are accessible by all student and staff on the campus web site ([www.njc.edu](http://www.njc.edu)) under Publications. Hardcopy reports are available upon request from the Vice President of Student Services Office in Hays Student Center 132, the Office of Admission, or the Records Office. This notice of access and availability is distributed to all enrolled students and employees. The Campus Alcohol/Drug Policy is distributed directly to all enrolled students and to all employees.

**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 pleas, or a deferred judgement and sentence for inciting riot, arming rioters, or engaging in a riot.

**VOTER REGISTRATION**

Northeastern Junior College 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](http://www.registertovote.org).

# General Education and Guarantee 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.

By definition 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 his or her area of emphasis, and it is intended to impart common knowledge, intellectual concepts, and attitudes which every educated person should possess.

## GUARANTEE 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 (Guarantee Transfer or GT Pathways) courses. More than 500 lower-division general education courses in 20 subject areas have been approved for guaranteed transfer. NJC offers many of these courses on campus. These are indicated with a (+) sign in front of the course name. If not they may be available as an online course through CCOOnline. 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 guarantee transfer courses can be found on the Colorado Department of Higher Education website.

(+) Indicates that the course is generally offered at least once every other year. Most are offered every year, but some rotate on an every other year basis with other courses.



*"Colorado's First iPad College"*

**Colorado Community College System  
Guarantee Transfer Courses for General Education**
**Communication**

+ ENG 121 English Composition I .....	3
+ ENG 122 English Composition II .....	3
ENG 201 Composition III: Writing for Public Discourse .....	3
ENG 265 Writing About History .....	3

**Mathematics**

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 II .....	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**

+ AGY 240 Introductory Soil Science .....	4
+ ANT 111 Biological Anthropology.....	4
ANT 250 Medical Anthropology .....	3
+ AST 101 Astronomy I .....	4
+ AST 102 Astronomy II .....	4
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 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 116 Intro to Human Disease (AA & AGS only) .....	3
+ 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 Chem. 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
ENV 110 Natural Disasters (AA & AGS only).....	3
+ GEO 111 Physical Geography – Landforms w/lab.....	4
GEO 112 Physical Geography - Weather & Climate .....	4
GEY 108 Geology of National Parks (AA & AGS only)....	3
+ GEY 111 Physical Geology .....	4
+ GEY 112 Historical 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 (AA & AGS only).....	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.

**Social & Behavioral Sciences** – Select 3 courses, 1 must be History and no more than 2 courses from any one category.  
History:

+ 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:

+ 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:

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

Human Behavior & Social Systems:

+ AGR 260 World Interdependence: Population & Food .....	3
+ ANT 101 Cultural Anthropology .....	3
ANT 102 Cultural Anthropology Lab .....	1
ANT 103 Archaeology 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
CRJ 110 Introduction to Criminal Justice .....	3
COM 220 Intercultural Communication .....	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 3 courses with no more than 2 courses from any one category.

Arts and Expression:

+ 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
MUS 106 Songwriting .....	3
+ MUS 120 Music Appreciation .....	3
+ MUS 121 Music History: Medieval through Classical Period .....	3
+ MUS 122 Music History: Early Romantic Period to the 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:

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:

+ 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

Foreign Languages:

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

(+) Indicates that the course is generally offered at least once every other year. Most are offered every year, but some rotate on an every other year basis with other courses.



**APPROVED A.A./A.S. ELECTIVES**

Any course approved as a Guarantee 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 Academic Services.

AAA Any AAA courses numbered 100 or higher	
ACC 121 Accounting Principles I	4
ACC 122 Accounting Principles II	4
AGY 100 General Crop Production	4
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 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 CRJ course	
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
ENG Any course with an ENG Prefix 100 or higher, except ENG 115 or ENG 131	
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	
HIS Any course with a HIS Prefix	
HPE Any course with an HPE Prefix	
HPR 102 CPR for Professionals	5
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 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	
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	

NJC graduation requirement 2 credits: Lifetime Fitness/Wellness Skills.  
 Requirement: Any two unduplicated credits (two 1 credit courses or one 2+ credits course)  
 Courses that will fulfill this requirement: Any 1 credit hour PED or DAN course excluding PED 110, 111, 112, 113 or any of the following HWE courses:

- \*HWE 100 Human Nutrition on our campus (20% can add activity component)
- AGR 175 & 176 ST: Rodeo Practice
- HWE 103 Community First Aid & CPR
- HWE 111 Health & Wellness
- HWE 113 Standard First Aid
- HWE 117 Mental Health First Aid
- HWE 124 Fitness & Wellness

\*HWE 100 only if taught on the NJC campus. On campus sections will contain at least 20% activity component. If taught off-campus the instructor needs to coordinate with campus officials regarding the activity component if they want to use this course to fulfill this requirement.

## 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

## TRANSFER PROGRAMS

### FOUR-YEAR COLLEGE OR UNIVERSITY TRANSFER CURRICULA

Transfer programs are offered to students planning to continue at a senior institution and earn the bachelor's degree. Any student who expects to transfer to a senior college from Northeastern Junior College is advised to write to the registrar of the proposed college(s) or university(s) for specific information concerning course work to be taken while attending NJC. 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 waive any course prerequisite or corequisite.

### 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



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

## 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*  
 Biotechnology  
 Business - *Degree with Designation*  
 Chemistry - *Degree with Designation*  
 Communication - *Degree with Designation*  
 Criminal Justice - *Degree with Designation*  
 Early Childhood Education - *Statewide Transfer Agreement*  
 Economics - *Degree with Designation*  
 Elementary Education - *Statewide Articulation Agreement*  
 Engineering - *Statewide Transfer Agreement*  
 English - *Degree with Designation*  
 General Science  
 Geography - *Degree with Designation*  
 Geology - *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*  
 Philosophy - *Degree with Designation*  
 Physical Education Teaching/Coaching  
 Physics - *Degree with Designation*  
 Political Science - *Degree with Designation*  
 Pre-Professional  
 Pre-Chiropractic  
 Pre-Dental Hygiene  
 Pre-Dentistry  
 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  
 Pre-Speech Pathology  
 Pre-Surgery Technology  
 Pre-Veterinary Medicine

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

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

Recreation

Sociology - *Degree with Designation*

Soil and Crop Sciences - *Degree with Designation*

Special Education

Sport Management

Sports Medicine/Athletic Training - *Transfer Agreement Available*

Studio Art - *Degree with Designation*

Theatre - *Degree with Designation*

Wildlife Biology

Zoology

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

University Parallel/Transfer Programs

Agriculture:

Agriculture Journalism/Communications

Animal Science/Equine Science – Industry Concentration

Animal Science/Equine Science – Science Concentration

Range Management

General Studies

Science

Additional information is available from transfer students' advisors, offices of the Department Chair, or the Counseling Office concerning transfer programs and transfer to a four year college or university.

## STATEWIDE ARTICULATION AGREEMENTS - Associate of Arts

The number of statewide articulation agreements continues to increase. These agreements between two and four-year institutions ensures 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.

### A. A. STATEWIDE ARTICULATION AGREEMENT - ANTHROPOLOGY

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.

More specific information regarding the Anthropology degree with designation can be found on the Colorado Department of Higher Education website at the following link:

<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/Statewide%20Transfer%20Articulation%20Agreement%20-%20ANTHROPOLOGY%20-%20FINAL%20Agreement,%20revised%202015-06-02.pdf>

See pages 46-48 for a list of Guarantee 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
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 SC1 courses
Total	32-33	
<b>Additional Required Courses</b>	<b>Credits</b>	
	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	
<b>Electives</b>	<b>Credits</b>	
Total	5-6	
<b>TOTAL</b>	<b>60</b>	

\*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 NJC Advisor and select 5 credits based on the specific articulation agreement and transfer institution requirements.

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

**A. A. STATEWIDE ARTICULATION AGREEMENT - ART HISTORY**

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.

More specific information regarding the Art History degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://highered.colorado.gov/Academics/Transfers/Agreements/ArtHistory.pdf>

See pages 46-48 for a list of Guarantee 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
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	7-8	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
<b>Total</b>	<b>31-33</b>	
<b>Additional Required Courses</b>	<b>Credits</b>	
	3	ART 111
	3	ART 112
	3	ART 121
	3	ART 131
	3	ART 132
	3	ART 207
<b>Total</b>	<b>18</b>	
<b>Electives</b>	<b>Credits</b>	
<b>Total</b>	<b>9-11</b>	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (9-11 credits)**

Consult with a NJC Advisor and select 9-11 credits of courses listed on the specific articulation agreement and transfer institution requirements.

**A. A. STATEWIDE ARTICULATION AGREEMENT - BUSINESS**

NJC Business Transfer program is designed for the student with future goals of obtaining a bachelor's 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.

NJC is a participating member of the Statewide Business Articulation Agreement which ensures that a student who begins an Associate of Arts degree at Northeastern Junior College can transfer 60 credits into the Bachelor of Arts or Bachelor of Science in Business degree program at a Colorado public four-year college (i.e., 60 plus 60 agreement). Schools of Business will accept 40 general education credits and 20 credits in transferable business courses from students who earned an Associate of Arts in Business. The principles, policies, and guidelines in this transfer agreement apply uniformly to all students attempting to transfer credits earned at NJC into the four-year colleges and universities. The general education and transferable business courses are course-specific and follow the same prerequisites offered at a four-year college.

More specific information regarding the Business degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://highered.colorado.gov/Academics/Transfers/Agreements/Statewide%20Transfer%20Articulation%20Agreement%20-%20BUSINESS%20-%20FINAL%20-%20Revised,%202014-12.pdf>

See pages 46-48 for a list of Guarantee Transfer courses.

**General Education Requirements**

	Credits	
Communication	6	ENG 121 & ENG 122
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
<b>Total</b>	<b>37</b>	
<b>Additional Required Courses</b>	<b>Credits</b>	
	8	ACC 121 and 122
	3	BUS 115
	6	BUS 216 and 217
	3	BUS 226
	3	COM 115
<b>Total</b>	<b>23</b>	
<b>TOTAL</b>	<b>60</b>	

\* There is no physical education requirement

**Recommended course:**

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

**A. A. STATEWIDE ARTICULATION AGREEMENT - COMMUNICATION**

The communication program at Northeastern Junior College 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.

More specific information regarding the Communication degree with designation can be found on the Colorado Department of Higher Education website at the following link: <http://higher.ed.colorado.gov/Academics/Transfers/Agreements/Statewide%20Transfer%20Articulation%20Agreement%20-%20COMMUNICATION%20-%20FINAL%20Agreement;%20Revised%202014-12.pdf>

See pages 46-48 for a list of Guarantee 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
Arts & Humanities	6	Two GT courses from AH1, AH2, AH3, <u>or</u> AH4
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	
<b>Additional Required Courses</b>	<b>Credits</b>	
	3	COM 115
	3	COM 125
	3	COM 217
	6	Two GT courses from either HI1 or SS1, SS2, or SS3
	3	One additional COM course
Total	18	
<b>Electives</b>	<b>Credits</b>	
Total	11	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (11 credits)**

Consult with a NJC Advisor and select 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 4-year institution.

**A. A. STATEWIDE ARTICULATION AGREEMENT - CRIMINAL JUSTICE**

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 in both 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.

More specific information regarding the Criminal Justice degree with designation can be found on the Colorado Department of Higher Education website at the following link: <http://higher.ed.colorado.gov/Academics/Transfers/Agreements/Statewide%20Transfer%20Articulation%20Agreement%20-%20CRIMINAL%20JUSTICE%20-%20FINAL%20Agreement;%20Revised%202015-03.pdf>

See pages 46-48 for a list of Guarantee 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
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 GT SS3 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	
<b>Additional Required Courses</b>	<b>Credits</b>	
	3	COM 115 <u>or</u> 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	
<b>Electives</b>	<b>Credits</b>	
Total	0-2	
<b>TOTAL</b>	<b>60</b>	

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

**A. A. STATEWIDE ARTICULATION AGREEMENT - EARLY CHILDHOOD TEACHER EDUCATION**

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.

More specific information regarding the Early Childhood Teacher Education statewide transfer articulation agreement can be found on the Colorado Department of Higher Education website at the following link:  
<http://higher.colorado.gov/Academics/Transfers/Agreements/STAA%20-%20ECE%20-%20Current%20MASTER%20Agmt%20-%202015-06-02.pdf>

See pages 46-48 for a list of Guarantee Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122
Mathematics	6-7	MAT 120 <u>or</u> 121 & MAT 135 <u>OR</u> MAT 155 & 156
Arts & Humanities	6	Two of the following: ART 110, LIT 115, LIT 255, MUS 120
History	3	HIS 121
Social & Behavioral Sciences	6	GEO 105 & POS 111
Natural & Physical Sciences	8	SCI 155 & 156
Total	35-36	
Additional Required Courses	Credits	
	3	COM 115
	3	ECE 101
	3	ECE 102
	3	ECE 205
	3	ECE 238
	3	ECE 241
	1	ECE 188 <u>or</u> 209 <u>or</u> 236
Total	19	
Electives	Credits	
Total	6	
<b>TOTAL</b>	<b>60-61</b>	

**Required Electives (6 credits)**

Consult with a NJC Advisor and select 6 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.**

For information on coursework needed for preschool/childcare Director see page 85.

**A. A. STATEWIDE ARTICULATION AGREEMENT - ECONOMICS**

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.

More specific information regarding the Economics degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://higher.colorado.gov/Academics/Transfers/Agreements/ECONOMICS%20-%20Agreement,%202014-05.pdf>

See pages 46-48 for a list of Guarantee 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
Total	37	
Additional Required Courses	Credits	
	3	MAT 135
Total	3	
Electives	Credits	
Total	20	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (20 credits)**

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



### A. A. STATEWIDE ARTICULATION AGREEMENT - ELEMENTARY TEACHER EDUCATION

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.

More specific information regarding the Elementary Teacher Education statewide transfer articulation agreement can be found on the Colorado Department of Higher Education website at the following link:

<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/STAA%20-%20ELED%20-%20Master%20Agmt%20-%202015-06-02.pdf>

See pages 46-48 for a list of Guarantee Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 (B or better required) & 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
<b>Total</b>	<b>32</b>	
<b>Additional Required Courses</b>	<b>Credits</b>	
	3	COM 115
	3	EDU 221
	3	PSY 238
<b>Total</b>	<b>9</b>	
<b>Electives</b>	<b>Credits</b>	
<b>Total</b>	<b>19</b>	
<b>TOTAL</b>	<b>60</b>	

#### **Required Electives (19 credits)**

Consult with a NJC 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

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.

More specific information regarding the English degree with designation can be found on the Colorado Department of Higher Education website at the following link:

<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/English.pdf>

See pages 46-48 for a list of Guarantee Transfer courses.

General Education Requirements	Credits	
Communication	6	ENG 121 & ENG 122 <u>OR</u> ENG 122 & ENG 201
Mathematics	3-4	MAT 120 <u>or</u> higher
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	7	Two GT courses from SC1 <u>or</u> SC2 (one must be a SC1 course with a lab)
<b>Total</b>	<b>34-35</b>	
<b>Additional Required Courses</b>	<b>Credits</b>	
	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.
<b>Total</b>	<b>18</b>	
<b>Electives</b>	<b>Credits</b>	
<b>Total</b>	<b>8</b>	ENG 221 recommended
<b>TOTAL</b>	<b>60-61</b>	

#### **Required Electives (8 credits)**

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

**A. A. STATEWIDE ARTICULATION AGREEMENT - GEOGRAPHY**

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.

More specific information regarding the Geography degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://highered.colorado.gov/Academics/Transfers/Agreements/Statewide%20Transfer%20Articulation%20Agreement%20-%20GEOGRAPHY%20-%20Final%20Agreement%20-%202014-09-04%20-%20for%20posting.pdf>

See pages 46-48 for a list of Guarantee 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
Arts & Humanities	6	Two GT courses from AH1, AH2, <u>or</u> AH3
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, <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	
<b>Additional Required Courses</b>		<b>Credits</b>
	3	GEO 105
	3	GEO 106
	4	GEO 111
	4	GEO 112
Total	14	
<b>Electives**</b>		<b>Credits</b>
Total	13-14	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (13-14 credits)**

Consult with a NJC Advisor and select 13-14 credits based on the specific articulation agreement and transfer institution requirements.

\*Please consult with a NJC advisor 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**

The History program at NJC 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.

More specific information regarding the History degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://highered.colorado.gov/Academics/Transfers/Agreements/Statewide%20Transfer%20Articulation%20Agreement%20-%20HISTORY%20-%20Final%20-%20Revised,%202015-05.pdf>

See pages 46-48 for a list of Guarantee 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
Arts & Humanities	9	Three GT courses from AH1, AH2, AH3, <u>or</u> AH4
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 a SC1 course with a lab)
Total	34	
<b>Additional Required Courses</b>		<b>Credits</b>
	3	COM 115 <u>or</u> 125
	3	HIS 102 <u>or</u> HIS 112
	3	HIS 121
	3	HIS 122
	3	One additional History course from GT HI1
Total	15	
<b>Electives</b>		<b>Credits</b>
Total	11	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (11 credits)**

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

**A. A. STATEWIDE ARTICULATION AGREEMENT -  
MUSIC**

NJC 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 NJC's musical groups.

More specific information regarding the Music degree with designation can be found on the Colorado Department of Higher Education website at the following link:

<http://higherred.colorado.gov/Academics/Transfers/Agreements/music.pdf>

See pages 46-48 for a list of Guarantee Transfer courses.

General Education Requirements		Credits
Communication	6	ENG 121 & ENG 122 OR ENG 122 & a GT CO-3 course
Mathematics	3	One GT MA1 course
Arts & Humanities	6	MUS 121 & 122
History	3	One GT HI1 course
Social & Behavioral Sciences	6	Two GT courses from SS1, SS2, or SS3
Natural & Physical Sciences	7	Two GT courses from SC1 or 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
	3	MUS 211
	2	MUS 212 & 213
	2	MUS 241 & 242
	2	MUS 251 & 252
Total	26	
Electives		Credits
Total	3	Any MUSIC elective
<b>TOTAL</b>	<b>60</b>	

**A. A. STATEWIDE ARTICULATION AGREEMENT -  
PHILOSOPHY**

The philosophy courses at NJC 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.

More specific information regarding the Philosophy degree with designation can be found on the Colorado Department of Higher Education website at the following link:

<http://higherred.colorado.gov/Academics/Transfers/Agreements/Statewide%20Transfer%20Articulation%20Agreement%20-%20PHILOSOPHY%20-%20FINAL%20Agreement%20-%202014-09-04%20-%20for%20posting.pdf>

See pages 46-48 for a list of Guarantee Transfer courses.

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

**Required Electives (14 credits)**

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

**A. A. STATEWIDE ARTICULATION AGREEMENT -  
POLITICAL SCIENCE**

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.

More specific information regarding the Political Science degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://highered.colorado.gov/Academics/Transfers/Agreements/POLITICAL%20SCIENCE%20-%202014-06.pdf>

See pages 46-48 for a list of Guarantee 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
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 and 202
Natural & Physical Sciences	8	Two GT courses from SC1 <u>or</u> SC2
Total	32	
Additional Required Courses		Credits
	3	POS 105
	3	POS 111
	3	POS 205
	3	POS 225
Total	12	
Electives		Credits
Total	16	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (16 credits)**

Consult with a NJC Advisor and select 16 credits based on the specific articulation agreement and transfer institution requirements.

**A. A. STATEWIDE ARTICULATION AGREEMENT -  
PSYCHOLOGY**

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.

More specific information regarding the Psychology degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://highered.colorado.gov/Academics/Transfers/Agreements/PSYCHOLOGY-BA%20-2014-06.pdf>

See pages 46-48 for a list of Guarantee 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
Arts & Humanities	9	Three GT courses from AH1, AH2, AH3, <u>or</u> AH4 No more than two courses 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	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (6-7 credits)**

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

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

**A. A. STATEWIDE ARTICULATION AGREEMENT -  
SOCIOLOGY**

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.

More specific information regarding the Sociology degree with designation can be found on the Colorado Department of Higher Education website at the following link:

<http://highered.colorado.gov/Academics/Transfers/Agreements/SOCIOLOGY%20-%20Final%20-%202014-06.pdf>

See pages 46-48 for a list of Guarantee 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 or 4 credit GT MA1 course
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	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	6-8	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (6-7 credits)**

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

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

**A. A. STATEWIDE ARTICULATION AGREEMENT -  
STUDIO ART**

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.

More specific information regarding the Studio Art degree with designation can be found on the Colorado Department of Higher Education website at the following link:

<http://highered.colorado.gov/Academics/Transfers/Agreements/StudioArt.pdf>

See pages 46-48 for a list of Guarantee 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
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	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (8 credits)**

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

**A. A. STATEWIDE ARTICULATION AGREEMENT -  
THEATER**

The NJC 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 NJC 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. NJC theatre productions are open to all students regardless of major.

More specific information regarding the Theater degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://higher.colorado.gov/Academics/Transfers/Agreements/theater.pdf>

See pages 46-48 for a list of Guarantee 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
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	
Additional Required Courses		Credits
	3	THE 108
	3	THE 111
	3	THE 116
	3	THE 212
	3	THE 215
	3	One of the following: THE 131, 132, 231, 232
Total	18	
Electives		Credits
Total	11	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (11 credits)**

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

**ASSOCIATE OF ARTS DEGREE (A.A.)  
(60 CREDITS) - GENERAL**

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 for the purpose of earning 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 50.

**GRADUATION REQUIREMENTS AND POLICIES**

1. Complete a minimum of 60 semester credits of approved coursework as outlined in the college catalog. Thirty seven (37) semester credits comprise the general education requirement depending on which mathematics course is completed. 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 Junior College.
4. File an Application for Graduation in the Records Office.
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**

Courses that fulfill the General Education requirements are listed on pages 46-48.

- Oral Communication – 3 credits (CCCS requirement)
  - COM 115 Public Speaking OR ..... 3
  - 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) ..... 3
  - OR
  - 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)

**AND**

Physical & Life Sciences – 7 credits minimum

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

- Astronomy (GT-SC1)
- Biology (GT-SC1, GT-SC2)
- Chemistry (GT-SC1)
- Geology (GT-SC1)
- Intro to Human Disease (GT-SC2)
- Physics (GT-SC1)
- Principles of Animal Biology (GT-SC2)

NJC graduation requirement 2 credits: Lifetime Fitness/Wellness Skills.

Requirement: Any two unduplicated credits (two 1 credit courses or one 2+ credits course)

Courses that will fulfill this requirement: Any 1 credit hour PED or DAN course excluding PED 110, 111, 112, 113 or any of the following HWE courses:

- \*HWE 100 Human Nutrition on our campus (20% can add activity component)
- AGR 175 & 176 ST: Rodeo Practice
- HWE 103 Community First Aid & CPR
- HWE 111 Health & Wellness
- HWE 113 Standard First Aid
- HWE 117 Mental Health First Aid
- HWE 124 Fitness & Wellness

\*HWE 100 only if taught on the NJC campus. On campus sections will contain at least 20% activity component. If taught off-campus, the instructor needs to coordinate with campus officials regarding the activity component if they want to use this course to fulfill this requirement.

Programs of study set forth by state-wide articulation agreements may be exempt from the Lifetime Fitness/Wellness Skills requirements.

**Electives** - 19-21 credits selected from the list of Approved A.A./A.S. Electives on Pages 48-49.

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 pages 48-49.

**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 students transcripts or diploma.

**Art**

Art courses at Northeastern Junior College 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 NJC 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 NJC 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 165 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

Additional requirements are listed on [www2.chsaa.org/coaches.asp](http://www2.chsaa.org/coaches.asp)

**Physical Education (Teaching)**

The Physical Education Teaching program at Northeastern Junior College prepares students to successfully transfer to a four year university's licensure program. Students will gain knowledge in a variety of areas including methods, drug awareness, first aid and current health issues.

**Suggested Electives:**

HPE 100 Intro to Physical Ed & Sport	.....	2
HPE 114 Analysis/Teaching of Ind/Dual Sports	.....	3
HPE 124 Sports Officiating	.....	2
BIO 201 Human Anatomy & Physiology I **	.....	4
CIS 118 Introduction PC Applications	.....	3
EMS 115 First Responder	.....	3
HPR 217 Kinesiology	.....	4
HWE 124 Fitness & Wellness	.....	2
HWE 237 Exercise/Nutrition & Body Comp	.....	3
** Optional		

**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**

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 - AGRICULTURE BUSINESS**

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

More specific information regarding the Agriculture Business degree with designation can be found on the Colorado Department of Higher Education website at the following link: <http://highered.colorado.gov/Academics/Transfers/Agreements/AG%20Business%20-%20FINAL-%202014-06.pdf>

See pages 46-48 for a list of Guarantee Transfer courses.

**General Education Requirements**

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 <u>or</u> higher calculus
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> 107 <u>or</u> 111
<b>Total</b>	<b>35</b>
<b>Additional Required Courses</b>	<b>Credits</b>
	3 COM 115
	3 CIS 118
	3 ECO 201
	3 MAT 135
<b>Total</b>	<b>12</b>
<b>Electives</b>	<b>Credits</b>
<b>Total</b>	13 Select 13 credits from the following: AGE 205, AGE 208, AGE 210, MAT 125, ASC 100, ASC 225, ASC 230, ASC 250, ASC 288, AGY 100, AGY 240, ACC 121, <u>or</u> RAM 205
<b>TOTAL</b>	<b>60</b>

**Required Electives (13 credits)**

Consult with a NJC Advisor and select 13 credits based on the specific articulation agreement and transfer institution requirements. A minimum of 6 credits MUST be from an AGE prefix.



**A. S. STATEWIDE ARTICULATION AGREEMENT -  
AGRICULTURAL EDUCATION**

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 the Extension Service and sales and industry positions that involve using one's people skills.

More specific information regarding the Agricultural Education degree with designation can be found on the Colorado Department of Higher Education website at the following link: <http://higher.ed.colorado.gov/Academics/Transfers/Agreements/STAA%20-%20Agricultural%20Education%20-%20FINAL%20AGMT%20-%202015-09-03%20-%20for%20posting.pdf>

See pages 46-48 for a list of Guarantee 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 two different categories: 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 <u>or</u> BIO 221 & CHE 101 <u>or</u> 107 <u>or</u> 111
Total	35	
<b>Additional Required Courses</b>	<b>Credits</b>	
	3	ASC 100
	4	AGY 100
	4	AGY 240
	2	AME 105
Total	13	
	<b>Credits</b>	
<b>Directed Electives</b>	6	Select two of the following courses (minimum 6 credits) ASC 250, EDU 221, HWE 100
<b>Electives</b>	<b>Credits</b>	
Total	9	Select 9 credits from the following: AGE 205, ASC 225, ASC 230, ASC 288, AME 107, AME 118, AME 125, AME 151, AME 152, <u>or</u> RAM 205
<b>TOTAL</b>	<b>63</b>	

**Required Electives (9 credits)**

Consult with a NJC Advisor and select 9 credits based on the specific articulation agreement and transfer institution requirements.

**A. S. STATEWIDE ARTICULATION AGREEMENT -  
ANIMAL SCIENCE**

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.

More specific information regarding the Animal Science degree with designation can be found on the Colorado Department of Higher Education website at the following link: <http://higher.ed.colorado.gov/Academics/Transfers/Agreements/AG%20Animal%20Science%20-%202014-06.pdf>

See pages 46-48 for a list of Guarantee 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 <u>or</u> higher calculus
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> 107 <u>or</u> 111
Total	35	
<b>Additional Required Courses</b>	<b>Credits</b>	
	3	ASC 100
	4	ASC 225
	3	ASC 230
	3	ASC 250
	2	ASC 288
	3	COM 115
Total	18	
<b>Electives</b>	<b>Credits</b>	
Total	7	Select 7 credits from the following: CIS 118, AGE 205, AGE 208, AGE 210, ACC 121, ECO 201, RAM 205, CHE 112, CHE 205 <u>or</u> CHE 211
<b>TOTAL</b>	<b>60</b>	

**Required Electives (7 credits)**

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

**A. S. STATEWIDE ARTICULATION AGREEMENT - BIOLOGY**

NJC 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, agri-business, food industries, cosmetics and sales. Students entering this program should have a strong science and mathematics background in high school.

More specific information regarding the Biology degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/biology.pdf>

See pages 46-48 for a list of Guarantee Transfer courses.

**General Education Requirements**

**Credits**

Communication	6	ENG 121 & ENG 122 OR 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
<b>Total</b>	<b>36</b>	
<b>Additional Required Courses</b>	<b>Credits</b>	
	5	BIO 112
	5	CHE 112
	5	PHY 111
	5	PHY 112
<b>Total</b>	<b>20</b>	
<b>Electives</b>	<b>Credits</b>	
<b>Total</b>	<b>4</b>	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (4 credits)**

Consult with a NJC Advisor and select 4 credits based on the specific articulation agreement and transfer institution requirements.

**A. S. STATEWIDE ARTICULATION AGREEMENT - CHEMISTRY**

The chemistry program at NJC 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.

More specific information regarding the Chemistry degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/Chemistry.pdf>

See pages 46-48 for a list of Guarantee 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	One GT courses from AH1, AH2, AH3, <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	3	One GT courses from SS1, SS2, <u>or</u> SS3
Natural & Physical Sciences	10	CHE 111 & 112
<b>Total</b>	<b>30</b>	
<b>Additional Required Courses</b>	<b>Credits</b>	
	5	CHE 211
	5	CHE 212
	5	MAT 202
	4	MAT 203
	5	PHY 211
	5	PHY 212
<b>Total</b>	<b>29</b>	
<b>Electives</b>	<b>Credits</b>	
<b>Total</b>	<b>1</b>	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (1 credit)**

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

**Important Notes:**

1. 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.
2. 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-yr college/university under this Chemistry agreement are encouraged to 'reverse' transfer the one gtPathways course in arts and humanities and the one gtPathways course in social and behavioral sciences (Note #2 above) back to their community college in order to complete the gtPathways 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.

More specific information regarding the Engineering degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://highered.colorado.gov/Academics/Transfers/Students.html>

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 46-48 for a list of Guarantee Transfer courses.

#### **General Education Requirements**

	Credits	
Communication	6	ENG 121 & 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 GT courses from SS1, SS2, <u>or</u> SS3
Natural & Physical Sciences	15	CHE 111, PHY 211, PHY 212
Total	47	
<b>Electives</b>	<b>Credits</b>	
Total	13	
<b>TOTAL</b>	<b>60</b>	

#### **Required Electives (13 credits)**

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

### **A. S. STATEWIDE ARTICULATION AGREEMENT - GEOLOGY**

The geology program at NJC 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.

More specific information regarding the Geology degree with designation can be found on the Colorado Department of Higher Education website at the following link:

<http://highered.colorado.gov/Academics/Transfers/Agreements/GEOLOGY%20-%20FINAL%20-%202014-06.pdf>

See pages 46-48 for a list of Guarantee 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	CHE 111 & 112
Total	36	
<b>Additional Required Courses</b>	<b>Credits</b>	
	4	GEY 111
	4	GEY 112
	5	MAT 202
	5	PHY 211
	5	PHY 212
Total	23	
<b>Electives</b>	<b>Credits</b>	
Total	1	
<b>TOTAL</b>	<b>60</b>	

#### **Required Electives (1 credit)**

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

**A. S. STATEWIDE ARTICULATION AGREEMENT - HORTICULTURE BUSINESS MANAGEMENT**

**Please Note: At the current time, NJC 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.

More specific information regarding the Horticulture Business Management degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/horticulture.pdf>

See pages 46-48 for a list of Guarantee 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 112 <u>or</u> 221 & CHE 101 <u>or</u> 107 <u>or</u> 111
<b>Total</b>	<b>35</b>	
<b>Additional Required Courses</b>	<b>Credits</b>	
	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
<b>Total</b>	<b>18</b>	
<b>Electives</b>	<b>Credits</b>	
<b>Total</b>	<b>7</b>	Choose additional HLT or FLD courses except for HLT 208, 216, & 249; FLD 100 & 289
<b>TOTAL</b>	<b>60</b>	

**Required Electives (7 credits)**

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

**A. S. STATEWIDE ARTICULATION AGREEMENT - MATHEMATICS**

Students are able to complete mathematics courses supplemented with studies in natural science and/or computer sciences at NJC. NJC 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.

More specific information regarding the Mathematics degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/MATHEMATICS%20-%20Final%20-%202014-06.pdf>

See pages 46-48 for a list of Guarantee 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
<b>Total</b>	<b>39</b>	
<b>Additional Required Courses</b>	<b>Credits</b>	
	3	COM 115 <u>or</u> 125
	4	CSC 160
	5	MAT 202
	4-5	MAT 203 <u>or</u> 204
<b>Total</b>	<b>16-17</b>	
<b>Electives</b>	<b>Credits</b>	
<b>Total</b>	<b>4-5</b>	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (4-5 credits)**

Consult with a NJC Advisor and select 4-5 credits based on the specific articulation agreement and transfer institution requirements.

**A. S. STATEWIDE ARTICULATION AGREEMENT -  
PHYSICS**

Students are able to complete the first two years of their physics or engineering program at NJC. 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.

More specific information regarding the Physics degree with designation can be found on the Colorado Department of Higher Education website at the following link:

<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/physics.pdf>

See pages 46-48 for a list of Guarantee 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	3	One GT courses from SS1, SS2, <u>or</u> SS3
Natural & Physical Sciences	10	PHY 211 & 212
Total	36	
<b>Additional Required Courses</b>	<b>Credits</b>	
	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	
<b>Electives</b>	<b>Credits</b>	
Total	0	
<b>TOTAL</b>	<b>60</b>	

**A. S. STATEWIDE ARTICULATION AGREEMENT -  
PSYCHOLOGY**

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.

More specific information regarding the Psychology degree with designation can be found on the Colorado Department of Higher Education website at the following link:

<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/PSYCHOLOGY-BS%20-%20202014-06.pdf>

See pages 46-48 for a list of Guarantee 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 112 & 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	38	
<b>Additional Required Courses</b>	<b>Credits</b>	
	3	COM 115 <u>or</u> 125
	3	PSY 101
	3	PSY 102
Total	9	
<b>Electives</b>	<b>Credits</b>	
Total	13	
<b>TOTAL</b>	<b>60</b>	

**Required Electives (13 credits)**

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

**A. S. STATEWIDE ARTICULATION AGREEMENT -  
SOIL & CROP SCIENCES**

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.

More specific information regarding the Soil & Crop Sciences degree with designation can be found on the Colorado Department of Higher Education website at the following link:  
<http://higher.ed.colorado.gov/Academics/Transfers/Agreements/AG%20Soil%20and%20Crop%20Sciences%20-%20FINAL%20-%202014-06.pdf>

See pages 46-48 for a list of Guarantee 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 <u>or</u> higher calculus
Arts & Humanities	6	PHI 113 & one GT courses from AH1, AH2, <u>or</u> AH4
History	3	One GT HI1 course
Social & Behavioral Sciences	6	AGE 102 & AGR 260
Natural & Physical Sciences	10	BIO 111 <u>or</u> 221 & CHE 101 <u>or</u> 107 <u>or</u> 111
Total	35	
Additional Required Courses		Credits
	4	AGY 100
	4	AGY 240
	3	COM 115
Total	11	
Electives		Credits
Total	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> PHY 111 <u>or</u> PHY 211, RAM 205
<b>TOTAL</b>	<b>60</b>	

**Required Electives (14 credits)**

Consult with a NJC Advisor and select 14 credits based on the specific articulation agreement and transfer institution requirements.

**ASSOCIATE OF SCIENCE DEGREE (A.S.)  
(60 CREDITS) - GENERAL**

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 for the purpose of earning 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 (39) 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 Junior College.
4. File an Application for Graduation in the Records Office.
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 46-49.

Oral Communication –3 credits (CCCS requirement)  
COM 115 Public Speaking OR  
COM 125 Interpersonal Communication OR  
COM 220 Intercultural Communication

Written Communication – 6 credits  
ENG 121 (GT-CO1) and ENG 122 (GT-CO2) OR  
ENG 122 (GT-CO2) and one Advanced Writing Course (GT-CO3)

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

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 courses (GT-SS1, GT-SS2, GT-SS3)

**OR**

One guaranteed transfer Social and Behavioral Science course (GT-SS1, GT-SS2, GT-SS3)

**AND**

One guaranteed transfer History GT-HI1

**AND**

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)

NJC graduation requirement 2 credits: Lifetime Fitness/Wellness Skills.

Requirement: Any two unduplicated credits (two 1 credit courses or one 2+ credits course)

Courses that will fulfill this requirement: Any 1 credit hour PED or DAN course excluding PED 110, 111, 112, 113 or any of the following HWE courses:

- \*HWE 100 Human Nutrition on our campus (20% can add activity component)
- AGR 175 & 176 ST: Rodeo Practice
- HWE 103 Community First Aid & CPR
- HWE 111 Health & Wellness
- HWE 113 Standard First Aid
- HWE 117 Mental Health First Aid
- HWE 124 Fitness & Wellness

\*HWE 100 only if taught on the NJC campus. On campus sections will contain at least 20% activity component. If taught off-campus, the instructor needs to coordinate with campus officials regarding the activity component if they want to use this course to fulfill this requirement.

Programs of study set forth by state-wide articulation agreements may be exempt from the Lifetime Fitness/Wellness Skills requirements.

**Electives** - 17-19 credits selected from the list of Approved A.A./A.S. Electives on Pages 48-49.

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 pages 48-49.

### **ASSOCIATE OF SCIENCE 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 students transcripts or diploma.

### **Astronomy**

Recommended General Education Courses:

AST 101 Astronomy I	.....	4
AST 102 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 and	.....	5
CHE 112 General College Chemistry II OR	.....	5
GEY 111 Physical Geology and	.....	4
GEY 112 Historical Geology	.....	4
MAT 122 College Trigonometry	.....	3
MAT 203 Calculus III	.....	5
MAT 266 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
BIO 112 General College Biology II	.....	5
CHE 111 General College Chemistry I	.....	5
CHE 112 General College Chemistry II	.....	5
ENV 101 Intro to Environmental Science	.....	4
GEY 111 Physical Geology	.....	4
GEY 112 Historical Geology	.....	4
MAT 201 Calculus I	.....	5

Electives:

ECO 202 Principles of Microeconomics	.....	3
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### **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
MAT 202 Calculus II	.....	5

(pre-med student needs at least 6 Math credits)

**Pre-Nursing**

(for transfer to the University of Colorado Anschutz Medical Campus)

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

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

**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 4-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 220 General Zoology	.....	5
BIO 112 General College Biology II	.....	5
BIO 204 Microbiology	.....	4
BIO 208 General College Microbiology	.....	5
BIO 211 Cell Biology	.....	4
CHE 211 Organic Chemistry I	.....	5
CHE 212 Organic Chemistry II	.....	5

Pre-Vet is not a major at a 4-year institution. Students should also consult the requirements for their chosen major.

**Sports Medicine/Athletic Training**

The Sports Medicine/Athletic Training degree at Northeastern Junior College 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 Inj	.....	3
HPE 230 Athletic Training Practicum II	.....	2
BIO 201 Human Anatomy & Physiology I	.....	4
BIO 202 Human Anatomy & Physiology II	.....	4
CIS 118 Introduction PC Applications (recommended)	.....	3
HPR 102 CPR for Professionals	.....	.5
HPR 217 Kinesiology	.....	4
HWE 237 Exercise/Nut & 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
BIO 220 General Zoology	.....	5
CHE 107 Fundamentals of General Chemistry	.....	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:

BIO 220 General Zoology	.....	5
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)

The Associate of General Studies (A.G.S.) degree is available for individuals who desire to complete a broad instructional program of courses with or without constraints of specialization but with 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.
3. 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.
4. Earn a minimum cumulative grade point average of 2.0 (a "C" average).
5. Earn 15 semester credits of coursework prior to graduation through Northeastern Junior College.
6. File an Application for Graduation in the Records Office.
7. 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 Guarantee Transfer Course (see list on pages 46-48) will also fulfill a general education requirement for the AGS degree in the appropriate category. Additional courses are listed under the respective categories below.**

1. Oral Communication - a minimum of 3 semester credits required:
 

COM 115 Public Speaking	.....	3
COM 125 Interpersonal Communication	.....	3
COM 219 Group Dynamics	.....	3
2. Written Communication - a minimum of 3 semester credits required:
 

See Guarantee Transfer courses on pages 46-48 or

ENG 131 Technical Writing	.....	3
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3. Mathematics - a minimum of 3 semester credits required:
 

See Guarantee Transfer courses on pages 46-48 or

MAT 112 Financial Mathematics	.....	3
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4. Science - a minimum of 4 semester credits required:
 

See Guarantee Transfer courses on pages 46-48 or

AGY 100 General Crops	.....	4
AGY 240 Introductory Soil Science	.....	4
BIO 106 Basic Anatomy & Physiology	.....	4
CHE 103 Agricultural Chemistry	.....	4
CHE 107 Fundamentals of General Chemistry	.....	5
HPR 217 Kinesiology	.....	4
5. Social and Behavioral Science — a minimum of 3 semester credits required:
 

See Guarantee Transfer courses on pages 46-48 or

ECO 105 Introduction to Economics	.....	3
MAN 128 Human Relations in Organization	.....	3
SOC 218 Sociology of Diversity	.....	3
6. Humanities — a minimum of 3 semester credits required:
 

See Guarantee Transfer courses on pages 46-48 or

LIT 255 Children's Literature	.....	3
PHI 115 World Religions West	.....	3
PHI 116 World Religions East	.....	3
SPA 111 Spanish Language I	.....	5
SPA 112 Spanish Language II	.....	5
SPA 115 Spanish for the Professional I	.....	3
SPA 215 Spanish for the Professional II	.....	3

7. NJC graduation requirement 2 credits: Lifetime Fitness/Wellness Skills.

Requirement: Any two unduplicated credits (two 1 credit courses or one 2+ credits course)

Courses that will fulfill this requirement: Any 1 credit hour PED or DAN course excluding PED 110, 111, 112, 113 or any of the following HWE courses:

- \*HWE 100 Human Nutrition on our campus (20% can add activity component)
- AGR 175 & 176 ST: Rodeo Practice
- HWE 103 Community First Aid & CPR
- HWE 111 Health & Wellness
- HWE 113 Standard First Aid
- HWE 117 Mental Health First Aid
- HWE 124 Fitness & Wellness

\*Agriculture transfer students pursuing an AGS degree are exempt from this graduation requirement.

\*HWE 100 only if taught on the NJC campus. On campus sections will contain at least 20% activity component. If taught off-campus, the instructor needs to coordinate with campus officials regarding the activity component if they want to use this course to fulfill this requirement.

## AGRICULTURE TRANSFER PROGRAMS

Northeastern Junior College 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 anyone 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 assure a successful transfer.

- ✦ Agriculture Business
- ✦ Agriculture Communications/Journalism
- ✦ Agriculture Education
- ✦ Animal/Equine Science - Industry Concentration
- ✦ Animal/Equine Science - Science Concentration
- ✦ Pre-Veterinary Medicine
- ✦ Range Management
- ✦ Soil & Crop Sciences
- ✦ *Recommended General Education Courses for Agriculture Transfer Programs are listed on the next page.*

## SECOND ASSOCIATE DEGREE

### Second Associate Degree

Students may earn more than one degree or certificate at Northeastern Junior College as long as all course requirements for each separate degree or certificate are satisfied. Additional conditions that apply are:

1. General Education Core requirements need not be repeated.
2. Cooperative Education or On-The-Job Training or Clinical credits may not be used for the second degree or certificate if any of the credits were earned for the first degree or certificate.
3. Transfer and/or originating NJC students may not be awarded a second AA, AS, or AGS degree.
4. Students may work on more than one degree concurrently.
5. No more than two degrees may be awarded (completed) for any given semester.

	Agriculture Communication	Equine Industry	Animal/Equine Science	Pre-Veterinary Medicine
<b>COMMUNICATIONS</b>				
COM 115 Public Speaking	☒	☒	☒	☒
ENG 121 English Comp I	☒	☒	☒	☒
ENG 122 English Comp II	☒	☒	☒	☒
<b>MATHEMATICS</b>				
MAT 135 Statistics				
MAT 121 College Algebra	☒	☒	☒	☒
MAT 125 Survey Calculus				
<b>SCIENCE</b>				
BIO 111 Coll Biology I w/lab	☒	☒	☒	☒
BIO 112 Coll Biology II w/lab			☒	☒
CHE 107 Fun Gen Chem	☒	☒		
CHE 111 Coll Chem I w/lab			☒	☒
CHE 112 Coll Chem II w/lab			☒	☒
CHE 205 Intro Organic Chem <u>OR</u>			☒	☒
CHE 211 Org Chem I w/lab <u>AND</u>			☒	☒
CHE 212 Org Chem II w/lab			☒	☒
<b>SOCIAL &amp; BEHAVIORAL SCIENCE</b>				
AGE 102 Ag Economics*	☒	☒	☒	☒
ECO 201 Macroeconomics				
<b>HISTORICAL PERSPECTIVES</b>				
Any GT History	☒	☒	☒	☒
<b>GLOBAL &amp; CULTURAL AWARENESS</b>				
AGR 260 World Interdependence	☒	☒	☒	☒
<b>ARTS/HUMANITIES</b>				
Refer to Page 46 for List of GT Approved Courses				
<b>FOUNDATION AG COURSES</b>				
ASC 100 Animal Sciences	☒	☒	☒	☒
ASC 225 Feeds & Feeding		☒	☒	☒
AGE 205 Farm/Ranch Mgmt				
AGY 100 Gen Crop Production	☒			
AGY 240 Intro Soil Science				

\* Students choose only one of the following from each major category or any GT Pathways Course.

*Each major will have additional course requirements and recommended electives based on the program requirements at CSU.*

# Career & Technical Education

## CAREER AND TECHNICAL EDUCATION (CTE)

A changing emphasis in education has so heightened the interest in career and technical education that 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 Junior College 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 Junior College 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 the Director of Admissions.

*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.*



*“Colorado’s First iPad College”*

## 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 with at least one course in each of the following categories: \*\*Communication or Reading; \*\*Mathematics; \*\*Science or Computer Science; \*\*Social/Behavioral Science or Humanities\*\*. 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 Junior College.
4. File an Application for Graduation in the Records Office.
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 are chosen from the following areas in Communications or Reading, Mathematics, Science or Computer Science, Social Sciences or Humanities.

Any course designated as a Guarantee Transfer Course (see list on pages 46-49) will also fulfill a general education requirement for the AGS degree in the appropriate category. Additional courses are listed under the respective categories below.

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 219 Group Dynamics .....	3
COM 230 Argumentation and Debate .....	3

#### II. Mathematics

See Guarantee Transfer courses on pages 45-48 OR

BUS 226 Business 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 45-48 OR

AGB 218 Computerized Farm Records .....	3
AGB 102 Agribusiness Foundations .....	3
AGY 100 General Crops .....	4
AGY 240 Introductory Soil Science .....	4
ASC 100 Animal Sciences .....	3
ASC 102 Introduction to Equine Science .....	4
CHE 103 Agricultural Chemistry .....	4
CHE 107 Fundamentals of General Chemistry .....	5
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 45-48 OR

BUS 115 Introduction to Business .....	3
BUS 116 Personal Finance .....	3
BUS 203 Intro to International Business .....	3
ECO 105 Intro to Economics .....	3
MAN 128 Human Relations in Organization .....	3
PSY 237 Child and Adolescent Psychology .....	3
SOC 218 Sociology of Diversity .....	3
SPA 101 Conversational Spanish I .....	3
SPA 102 Conversational Spanish II .....	3
SPA 111 Spanish Language I .....	5
SPA 112 Spanish Language II .....	5
SPA 115 Spanish for the Professional I .....	3
SPA 215 Spanish for the Professional II .....	3

**Total Semester Credits ..... 15 Credits**

*At least one course in each of the following categories: Communications or Reading; Mathematics; Science or Computer Science; and Social/Behavioral Science or Humanities.*

**Summary of Degree Requirements**

- I. General Education (chosen from the four basic areas in Communications or Reading, Mathematics, Science or Computer Science, and Social Sciences or Humanities) 15
- 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. Complete general education requirements (if any).
2. Earn a minimum cumulative grade point average of 2.0 (a "C" average).
3. Earn 25% of the semester credits of the program's coursework through Northeastern Junior College.
4. File an Application for Graduation in the Records Office.
5. Resolve all financial obligations to the college and return all library and college materials.

**AGRI-BUSINESS**

**ASSOCIATE OF APPLIED SCIENCE DEGREE**

Agri-Business 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 much needed 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 Agri-Business program at Northeastern Junior College 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 agri-business firm for 320 hours for eight (8) Internship credits.

**General Education Requirements**

*Communication* ..... 6 Credits

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	..... 3

*Mathematics/Science* ..... 6 Credits

MAT 107 Career Mathematics <u>OR</u> higher math	..... 3
ASC 100 Animal Science	..... 3

*Social Science/Humanities* ..... 3 Credits

AGE 102 Agricultural Economics	..... 3
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**Program Requirements ..... Credits**

ACC 101 Fundamentals of Accounting <u>OR</u>	..... 3
AGB 218 Computerized Farm Records	..... 3
AGB 120 Agricultural Salesmanship	..... 3
AGB 180 Agri-business Internship	..... 8
AGB 228 Agri-Business Management	..... 3
AGB 289 Agri-business Capstone	..... 1
AGE 210 Agricultural Marketing	..... 3
AGY 100 General Crops <u>OR</u>	..... 4
AGP 100 Practical Crop Production	..... 4
BUS 217 Business Comm & Report Writing	..... 3
CIS 118 Introduction to PC Applications.	..... 3

**Suggested Electives . ..... Credits**

ACC 121 Principles of Accounting I	..... 4
ACC 122 Principles of Accounting II	..... 4
AGB 218 Computerized Farm Records	..... 3
AGE 208 Agricultural Finance	..... 3
AGE 205 Farm and Ranch Management	..... 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 215 Animal Health	..... 3
AGP 247 Production Cattle Feeding	..... 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 225 Feeds/Feeding	..... 4
ASC 250 Livestock & Carcass Evaluation	..... 3
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
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

## AGRI-BUSINESS

### CERTIFICATE

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

### NINE ONE-YEAR CERTIFICATES

The agriculturist of today depends as much on his or her management skills as on production skills. This program provides individuals in the agriculture community systematic instruction to give them the tools to make sound business decisions based on enterprise and farm records. As technology changes, it is necessary to enhance skills to communicate with accountants, lenders, and other professionals. With difficult profit margins in agriculture, guidance in being resilient to risk is valuable.

Instruction is made up of on-site visits, lectures of hybrid/online instruction, and cooperative education.

#### RECORDS & BUSINESS PLANNING CERTIFICATE

Program Requirements	Credits
ABM 111 Records & Business Planning I	9
ABM 112 Records & Business Planning II	9

The focus of this certificate is to assist students in computerized record keeping and developing a Business plan.

#### FINANCIAL ANALYSIS CERTIFICATE

Program Requirements	Credits
ABM 121 Financial Analysis I	9
ABM 122 Financial Analysis II	9

The focus of this certificate is to develop financial statements and understand financial ratios as they relate to the agricultural business.

#### COMMODITY MARKETING CERTIFICATE

ABM 131 Commodity Marketing I	9
ABM 132 Commodity Marketing II	9

The focus of this certificate is to introduce commodity marketing to the student and utilize a defined, written marketing plan.

#### MARKETING & RISK MANAGEMENT CERTIFICATE

ABM 135 Marketing & Risk Management I	9
ABM 136 Marketing & Risk Management II	9

The focus of this certificate is expanding on commodity marketing with an emphasis in risk management, e-commerce, niche marketing and value added marketing.

#### AG BUSINESS & RISK MANAGEMENT - WEB PRODUCTIVITY & UTILIZATION EMPHASIS CERTIFICATE

Program Requirements	Credits
ABM 137 Web Productivity/Utilization I	9
ABM 138 Web Productivity/Utilization II	9

This certificate is designed to enhance business management skills by improving one's understanding and use of the internet for business productivity.

#### ADVANCED AGRICULTURE BUSINESS MANAGEMENT CERTIFICATE

Program Requirements	Credits
ABM 141 Advanced Business Management I	9
ABM 142 Advanced Business Management II	9

This certificate is designed to enhance management skills by looking at the existing business plan, identifying risk reducing alternatives and continuing in-depth financial analysis.

#### INTEGRATED MANAGEMENT CERTIFICATE

Program Requirements	Credits
ABM 143 Integrated Management I	9
ABM 144 Integrated Business Management II	9

This certificate emphasizes integration of data and software technology for a business. Research and identification of data will assist in development of a management plan.

#### RURAL BUSINESS ENTREPRENEURSHIP CERTIFICATE

Program Requirements	Credits
ABM 151 Rural Business Entrepreneurship I	9
ABM 152 Rural Business Entrepreneurship II	9

This certificate is designed to enhance your business management skills by looking at new business ventures and using technology to research and develop complete business plans.

#### LEADERSHIP/HUMAN RESOURCES CERTIFICATE

Program Requirements	Credits
ABM 153 Leadership/Human Resource Mgt. I	9
ABM 154 Leadership/Human Resource Mgt. II	9

This certificate is designed to enhance leadership and resource management in business. Learning effective leadership concepts and skills will be addressed.

Certificates may be taken out of order with permission of instructor.

## AGRICULTURE PRODUCTION AGRICULTURE

### ASSOCIATE OF APPLIED SCIENCE DEGREE

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 8 credits of required internship(s) for a total of at least 68 credits.

<b>General Education Requirements</b> .....	<b>Credits</b>
ASC 100 Animal Science .....	3
AGE 102 Agricultural Economics .....	3

An additional 9 credits must be taken from the AAS Degree General Education Requirements in the Communications or Reading, Mathematics, and the Science or Computer Science categories.

<b>Program Requirements</b> .....	<b>Credits</b>
ACC 101 Fundamentals of Accounting <u>OR</u> .....	3
AGB 218 Computerized Farm Records .....	3
AGE 205 Farm and Ranch Management .....	3
AGP 100 Practical Crops <u>OR</u> .....	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

<b>Suggested Electives</b> .....	<b>Credits</b>
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 215 Animal Health .....	3
AGP 241 Beef Cattle Management I .....	3
AGP 247 Production Cattle Feeding .....	3
AGY 240 Introductory Soil Science .....	4
AME 105 Basic Agricultural Mechanic Skills .....	2
AME 107 General Power Mechanics .....	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 215 Livestock Judging .....	2
ASC 250 Livestock and Carcass Evaluation .....	3
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
RAM 205 Principles of Range Management .....	3

## AGRICULTURE PRODUCTION AGRICULTURE

### CERTIFICATE

Students completing 30 semester credits plus 8 credits of Internship (38 total credits) will be eligible to receive an NJC 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 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, than 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.

<b>General Education Requirements</b> .....	<b>Credits</b>
Communications or Reading .....	3
Mathematics .....	3



Science or Computer Science .....	3
Social Science or Humanities .....	3
General Education Elective .....	3
<b>15 minimum</b>	

## AUTOMOTIVE & DIESEL MASTER TECHNICIAN

### CERTIFICATE

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

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 and N.A.T.E.F. 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 to deal with customers, co-workers and to write work orders and reports are also in demand. 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 Junior College Certificate or an Associate of Applied Science Degree.

Detailed information regarding this program and admission requirements may be obtained from the Director of Admissions, Northeastern Junior College.

#### General Education Requirements ..... 15 Credits

BUS 115 Introduction to Business .....	3
CIS 117 Introduction to Technical Applications .....	2
ENG 115 Technical English & Communication <u>OR</u>	
ENG 121 English Composition I <u>OR</u>	
ENG 131 Technical Writing I .....	3
MAT 102 Skilled Trades & Industrial Math .....	2
REA 130 Applied & Technical Reading .....	2
<i>Social Science Course, selected from</i>	
<i>courses for the AAS Degree</i> .....	3

#### Program Requirements ..... 60 Credits

ASE 101 Auto Shop Orientation .....	2
ASE 110 Brakes I .....	2
ASE 111 Brakes 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 Automotive Emissions .....	2
ASE 140 Steering & Suspension I .....	2
ASE 141 Steering & Suspension II .....	2
ASE 150 Manual Drive Train & Axle Maintenance.....	2
ASE 151 Manual Trans/Transaxle I .....	2
ASE 152 Manual Trans/Transaxle II .....	2
ASE 153 Automotive Drive Axle O/H .....	1
ASE 160 Engine Repair .....	2
ASE 161 Engine Repair & O/H .....	3
ASE 162 Auto Engine Service .....	2
ASE 210 Power & ABS Brakes.....	2
ASE 221 Auto/Diesel Body Electrical .....	4
ASE 231 Automotive Computers & Ignition Systems.....	2
ASE 233 Automotive Fuel Injection & Emissions .....	4
ASE 235 Driveability & Diagnosis .....	2
ASE 240 Steering & Suspension III .....	2
ASE 250 Auto Trans /Transaxle Service .....	1
ASE 251 Auto Trans/Transaxle Diagnosis.....	3
ASE 252 Advanced Auto Trans O/H .....	2
ASE 264 Intro to HVAC Systems .....	1
ASE 265 Auto Heating/AC Systems.....	4

#### Total Credits Required ..... 75 Credits

#### Suggested Electives ..... Credits

ACC 101 Fundamentals of Accounting .....	3
ASE 154 Man Trans/Transaxle O/H .....	1
ASE 165 Automotive Machining .....	2
ASE 201 Automotive Parts Managements .....	1
ASE 202 Automotive Service Management .....	2
ASE 220 Special Electronics Training .....	2
COM 115 Public Speaking .....	3
HWE 124 Fitness & Wellness .....	2
PED 112 Conditioning Lab .....	1
WEL 140 Welding Practices & Procedures .....	1.5

## AUTOMOTIVE TECHNOLOGY

### NINE CERTIFICATES

#### Automotive Brakes Certificate (8 credits)

ASE 101 Auto Shop Orientation .....	2
ASE 110 Brakes I .....	2
ASE 111 Brakes II .....	2
ASE 210 Power & ABS Brakes .....	2

#### Manual Powertrains Certificate (10 credits)

ASE 101 Auto Shop Orientation .....	2
ASE 150 Manual Drive Train & Axle Maintenance.....	2
ASE 151 Manual Trans/Transaxle I.....	2
ASE 152 Manual Trans/Transaxle II .....	2
ASE 153 Automotive Drive Axle O/H .....	1
ASE 154 Man Trans/Transaxle O/H .....	1

#### Automotive HVAC Certificate (7 credits)

ASE 101 Auto Shop Orientation .....	2
ASE 264 Intro to Auto Heatin/AC .....	1
ASE 265 Heating & A/C .....	4

#### Automotive Engines Certificate (11 credits)

ASE 101 Auto Shop Orientation .....	2
ASE 130 General Engine Diagnosis .....	2
ASE 160 Engine Remove & Replace .....	2
ASE 161 Engine Repair & Rebuild .....	3
ASE 162 Automotive Engine Service .....	2

#### Automatic Transmissions Certificate (8 credits)

ASE 101 Auto Shop Orientation .....	2
ASE 250 Auto Trans Service .....	1
ASE 251 Auto Trans/Transaxle Diagnosis .....	3
ASE 252 Advanced Auto Trans O/H .....	2

#### Automotive Electrical Certificate (7 credits)

ASE 101 Auto Shop Orientation .....	2
ASE 120 Basic Auto Electricity .....	2
ASE 122 Auto Electrical Safety Systems .....	1
ASE 123 Battery, Starting, Charging Systems .....	2

#### Advanced Electrical Certificate (10 credits)

ASE 101 Auto Shop Orientation .....	2
ASE 220 Special Electronics Training .....	2
ASE 221 Auto/Diesel Body Electrical .....	4
ASE 231 Auto/Diesel Computers .....	2

#### Steering & Suspension Certificate (8 credits)

ASE 101 Auto Shop Orientation .....	2
ASE 140 Steering & Suspension I .....	2
ASE 141 Steering & Suspension II .....	2
ASE 240 Steering & Suspension III .....	2

#### Fuels & Emissions Certificate (12 credits)

ASE 101 Auto Shop Orientation .....	2
ASE 134 Automotive Emissions .....	2
ASE 231 Auto/Diesel Computers .....	2
ASE 233 Fuel Injection & Exhaust Systems II.....	4
ASE 235 Driveability & Diagnosis .....	2

Note: ASE 101 is required as a pre-requisite for all courses in the automotive program.

## BUSINESS

### ASSOCIATE OF APPLIED SCIENCE DEGREE IN BUSINESS with Emphasis in:

- Accounting
- Business Administration
- Entrepreneurship
- Management
- Marketing
- Web Design

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* ..... 6 credits

ENG 121 English Composition I OR

ENG 131 Technical Writing I .....

COM 115 Public Speaking OR

COM 125 Interpersonal Communications .....

*Mathematics* .....

*Science and Computer Science* .....

*Social Sciences and Humanities* .....

Choose a course or courses within each of the appropriate required areas listed above as listed in the General Education Requirements for the Associate of Applied Science Degree section on page 76 (unless the course is a program requirement).

#### Business Core Requirements .....All Options 23 Credits

ACC 121 Principles of Accounting I .....

ACC 122 Principles of Accounting II .....

BUS 115 Introduction to Business .....

BUS 216 Legal Environment of Business .....

BUS 217 Business Communications and

Report Writing .....

CIS 118 Introduction PC Applications .....

ECONOMICS Course .....

#### ACCOUNTING EMPHASIS

##### Program Requirements - AAS

In addition to the Business Core, the following business courses are required:

ACC 115 Payroll Accounting .....

ACC 235 Computer Accounting Small Business .....

ACC 131 Income Tax OR .....

ACC 132 Tax Help Colorado AND .....

ACC 133 Tax Help Colorado Practicum .....

CIS 259 MOS Cert Expert Excel .....

MAN 128 Human Relations in Organizations .....

Electives .....

*Approved Electives to meet 60 total credits for the AAS degree.*

**NOTE:** ACC 101 Fundamentals of Accounting **AND** BUS 116 Personal Finance may be substituted for ACC 121 and ACC 122 in the following AAS Business Options: Web Design and Marketing emphasis.

**Business Electives**

Any MAN, MAR, BUS, ECO, FIN, ACC, CIS, MGD, CWB courses, PHI 205 Business Ethics or other approved courses.

**BUSINESS ADMINISTRATION EMPHASIS****Program Requirements – AAS**

In addition to the Business Core, the following business courses are required:

ECO 201 Principles of Macroeconomics <u>OR</u>	
ECO 202 Principles of Microeconomics .....	3
MAN 226 Principles of Management .....	3
MAN 128 Human Relations in Organizations .....	3
MAR 216 Principles of Marketing .....	3
Electives .....	10

Approved Electives to meet 60 total credits for the AAS degree.

**NOTE:** ACC 101 Fundamentals of Accounting **AND** BUS 116 Personal Finance may be substituted for ACC 121 and ACC 122 in the following AAS Business Options: Web Design and Marketing emphasis.

**Business Electives**

Any MAN, MAR, BUS, ECO, FIN, ACC, CIS, MGD, CWB courses, PHI 205 Business Ethics or other approved courses.

**ENTREPRENEURSHIP EMPHASIS****Program Requirements – AAS**

In addition to the Business Core, the following business courses are required:

BUS 102 Entrepreneurial Operations .....	3
BUS 116 Personal Finance .....	3
MAN 226 Principles of Management .....	3
MAN 128 Human Relations in Organizations.....	3
MAR 216 Principles of Marketing .....	3
Electives .....	7

Approved Electives to meet 60 total credits for the AAS degree.

**NOTE:** ACC 101 Fundamentals of Accounting **AND** BUS 116 Personal Finance may be substituted for ACC 121 and ACC 122 in the following AAS Business Options: Web Design and Marketing emphasis.

**Business Electives**

Any MAN, MAR, BUS, ECO, FIN, ACC, CIS, MGD, CWB courses, PHI 205 Business Ethics or other approved courses.

**MARKETING EMPHASIS****Program Requirements – AAS**

In addition to the Business Core, the following business courses are required:

CWB 130 Complete Web Editing .....	3
MAN 128 Human Relations in Organizations .....	3
MAR 216 Principles of Marketing .....	3
MAR 220 Principles of Advertising .....	3
MGD 111 Photoshop or Graphic Design Class .....	3
Electives .....	7

Approved Electives to meet 60 total credits for the AAS degree.

**NOTE:** ACC 101 Fundamentals of Accounting **AND** BUS 116 Personal Finance may be substituted for ACC 121 and ACC 122 in the following AAS Business Options: Web Design and Marketing emphasis.

**Business Electives**

Any MAN, MAR, BUS, ECO, FIN, ACC, CIS, MGD, CWB courses, PHI 205 Business Ethics or other approved courses.

**WEB DESIGN EMPHASIS****Program Requirements – AAS**

In addition to the Business Core, the following business courses are required:

BUS 120 Intro to E-Commerce .....	3
CWB 110 Complete Web Authoring .....	3
CWB 130 Complete Web Editing .....	3
MGD 111 Adobe Photoshop I .....	3
Electives .....	10

Approved Electives to meet 60 total credits for the AAS degree.

**NOTE:** ACC 101 Fundamentals of Accounting **AND** BUS 116 Personal Finance may be substituted for ACC 121 and ACC 122 in the following AAS Business Options: Web Design and Marketing emphasis.

**Business Electives**

Any MAN, MAR, BUS, ECO, FIN, ACC, CIS, MGD, CWB courses, PHI 205 Business Ethics or other approved courses.

**MANAGEMENT EMPHASIS**

MAN 226 Principles of Management FALL .....	3
MAN 128 Human Relations in Organizations SPRING.....	3
MAN 215 Organizational Behavior FALL .....	3
MAN 200 Human Resource Management .....	3
Additional ECO course: ECO 101 MUST be one of the course taken.	
Electives .....	7

Approved Electives to meet 60 total credits for the AAS degree.

**NOTE:** ACC 101 Fundamentals of Accounting **AND** BUS 116 Personal Finance may be substituted for ACC 121 and ACC 122 in the following AAS Business Options: Web Design and Marketing emphasis.

**Business Electives**

Any MAN, MAR, BUS, ECO, FIN, ACC, CIS, MGD, CWB courses, PHI 205 Business Ethics or other approved courses.

**ACCOUNTING CERTIFICATE****Required Core Courses:**

ACC 121 Principles of Accounting I .....	4
ACC 122 Principles of Accounting II.....	4
ACC 115 Payroll Accounting .....	3
ACC 235 Computer Accounting - Small Business.....	3
CIS 259 Advanced Excel (Prerequisite - CIS 118 or Instructor Approval) .....	1
<b>Total Credits Required .....</b>	<b>15 Credits</b>

**Electives (6 credits)**

ACC 132 Income Tax Preparation <b>AND</b> .....	2
ACC 133 Tax Help Colorado Practicum .....	1
AGB 218 Computerized Farm Records .....	3
BUS 115 Intro to Business .....	3
BUS 216 Legal Environment of Business .....	3
CIS 118 Intro to Microcomputer Applications .....	3
MAT 112 Financial Math .....	3

**Total Credits Required .....** **21 Credits**

**Business Electives**

Any MAN, MAR, BUS, ECO, FIN, ACC, CIS, MGD, CWB courses, PHI 205 Business Ethics or other approved courses.

**FOUNDATIONS OF BUSINESS I CERTIFICATE**

**Required Core Courses:**

ACC 121 Principles of Accounting I .....	4
BUS 115 Intro to Business .....	3
ENG 121 English Composition I <u>OR</u> .....	3
COM 115 Public Speaking <u>OR</u> .....	3
COM 125 Interpersonal Communications .....	3
MAT 112 Financial Math <u>OR</u> .....	3
MAT 121 College Algebra <u>OR</u> .....	4
BUS 226/MAT 135 Introduction to Statistics.....	3
CIS 118 Intro to PC Applications <u>OR</u> .....	3

Approved Business Elective or Internship.

**Total Credits Required ..... 16-17 Credits**

**FOUNDATIONS OF BUSINESS II CERTIFICATE**

**Required Core Courses:**

ACC 121 Principles of Accounting I .....	4
ACC 122 Principles of Accounting II .....	4
BUS 115 Intro to Business .....	3
ECO 101 Economics of Social Issues <u>OR</u> .....	
ECO 201 Macroeconomics <u>OR</u> .....	
ECO 202 Microeconomics .....	3
ENG 121 English Composition I <u>OR</u> .....	3
COM 115 Public Speaking <u>OR</u> .....	3
COM 125 Interpersonal Communications .....	3
MAT 112 Financial Math <u>OR</u> .....	3
MAT 121 College Algebra <u>OR</u> .....	4
BUS 226/MAT 135 Introduction to Statistics.....	3
CIS 118 Intro to PC Applications <u>OR</u> .....	3

Approved Business Elective or Internship.

**Total Credits Required .....23-24 Credits**

**BASIC TAX PREPARATION CERTIFICATE**

**Required Core Courses:**

ACC 132 Tax Help Colorado .....	2
ACC 133 Tax Help Colorado Practicum .....	1

**Total Credits Required ..... 3 Credits**

**Program Requirements ..... Credits**

COS 103 Shampoos, Rinses, and Conditioners I .....	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 Hair 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 Disinfection, Sanitation & Safety .....	2
COS 161 Intermediate I: Disinfection, Sanitation & Safety .....	1
COS 203 Shampoos, Rinses, and Conditioners II .....	1
COS 210 Intermediate II Hair Coloring .....	2
COS 211 Advanced Hair Coloring .....	2
COS 220 Intermediate II Haircutting .....	2
COS 221 Advanced Hair Cutting .....	2
COS 230 Intermediate II Hair Styling .....	2
COS 231 Advanced Hair Styling .....	1
COS 240 Intermediate II Chemical Texture .....	1
COS 241 Advanced Chemical Texture .....	1
COS 250 Management, Ethics, Interpersonal Skills & Salesmanship .....	1
COS 260 Intermediate II Disinfection, Sanitation & Safety .....	2
COS 261 Advanced Disinfection, Sanitation & Safety .....	1
EST 110 Introduction to Facials & Skin Care .....	3
EST 111 Intermediate Facial & Skin Care .....	2
EST 210 Advanced Massage & Skin Care .....	2
EST 211 Facial Makeup .....	1
EST 212 Hair Removal .....	3
MAN 128 Human Relations in Organizations .....	3
NAT 110 Introduction to Manicures & Pedicures .....	3
NAT 111 Intermediate Manicures & Pedicures .....	2
NAT 210 Advanced Manicures & Pedicures .....	2
NAT 211 Application of Artificial Nails .....	5
NAT 290 Advanced Nail Technician Studies .....	1
<b>Total required for Cosmetology Certificate</b> .....	<b>64 Credits</b>

**COSMETOLOGY**

**CERTIFICATE**

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 NJC 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.

**DIESEL TECHNOLOGY**

**ASSOCIATE OF APPLIED SCIENCE DEGREE**

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, N.A.T.E.F. standards and students will be working on live-units with real-world problems to diagnose and repair to 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 Junior College Certificate or an Associate of Applied Science degree.

Detailed information regarding this program and admission requirements may be obtained from the Director of Admissions, Northeastern Junior College.

**General Education Requirements ..... 15 Credits**

BUS 115 Introduction to Business .....	3
CIS 117 Introduction to Technical Applications .....	2
ENG 115 Technical English & Communication <u>OR</u>	
ENG 121 English Composition I <u>OR</u>	
ENG 131 Technical Writing .....	3
MAT 102 Skilled Trades & Industrial Math.....	2
REA 130 Applied and Technical Reading .....	2
MAN 128 Human Relations in Organizations .....	3

**Required Courses .....59 Credits**

DPM 101 Diesel Shop Orientation .....	2
DPM 103 Diesel Engines I .....	4
DPM 105 Heavy Duty Powertrains I .....	3
DPM 106 Diesel Fuel Systems .....	3
DPM 111 Cab & Electrical PMI .....	1.5
DPM 112 Engine Systems PMI .....	1.5
DPM 120 Basic Heavy Duty Electricity .....	2
DPM 121 Hydraulics I .....	3
DPM 126 Heavy Duty Starting & Charging .....	3
DPM 140 Heavy Duty Steering & Suspension I .....	3
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 208 H/D Automatic Trans. Diagnosis .....	1
DPM 210 Diesel Air Induction & Exhaust .....	2
DPM 211 Drivetrain and Steering PMI .....	1.5
DPM 212 Brakes Systems PMI .....	1.5
DPM 222 Heavy Duty Lighting & Instrumentation .....	3
DPM 223 H/D Body Electrical Systems .....	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

**Total Credits Required ..... 74 Credits****Suggested Elective**

The following is a suggested elective course that a student may take.

DPM 122 Hydraulics II .....	3
ASE 165 Engine Machining .....	2

**DIESEL TECHNOLOGY****EIGHT CERTIFICATES****H/D Brakes Certificate (9.5 credits)**

DPM 101 Diesel Shop Orientation .....	2
DPM 206 Heavy Duty Brakes I .....	3
DPM 207 Heavy Duty Brakes II .....	3
DPM 212 Brakes Systems PMI .....	1.5

**Diesel Electrical Certificate (14.5 credits)**

DPM 101 Diesel Shop Orientation .....	2
DPM 111 Cab & Electrical PMI .....	1.5
DPM 120 Basic Heavy Duty Electricity .....	2
DPM 126 Heavy Duty Starting & Charging .....	3
DPM 222 Heavy Duty Lighting and Instrumentation .....	3
DPM 223 Heavy Duty Body Electrical Systems .....	3

**H/D Steering & Suspension Certificate (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 (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 (16.5 credits)**

DPM 101 Diesel Shop Orientation .....	2
DPM 103 Diesel Engines I .....	4
DPM 106 Diesel Fuel Systems .....	3
DPM 112 Engine Systems PMI .....	1.5
DPM 203 Diesel Engines II .....	4
DPM 210 Diesel Air Induction & Exhaust .....	2

**Hydraulics Certificate (8 credits)**

DPM 101 Diesel Shop Orientation .....	2
DPM 121 Hydraulics I .....	3
DPM 122 Hydraulics II .....	3

**H/D Powertrains Certificate (10.5 credits)**

DPM 101 Diesel Shop Orientation .....	2
DPM 105 Heavy Duty Powertrains I .....	3
DPM 205 Heavy Duty Powertrains II .....	3
DPM 208 H/D Automatic Trans. Diagnosis .....	1
DPM 211 Drivetrain and Steering PMI .....	1.5

**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**

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- and after-school programs, Head Start, and other programs serving children birth to age eight. A Northeastern Junior College 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 .....	3

*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 106 Basic Anatomy & Physiology .....	4
BIO 111 General College Biology I .....	5
CIS 118 Introduction to PC Applications .....	3
EDU 261 Teaching, Learning, Technology .....	3
or another approved Science or Computer Science course	

*Social & Behavioral Sciences .....6 Credits*

PSY 101 General Psychology I OR .....	
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 OR .....	3
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**

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**

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 Assmt. Instruments .....	1
ECE 220 Curriculum Development .....	3
ECE 238 Child Growth & Development .....	3

## EARLY CHILDHOOD: NANNY

### CERTIFICATE

The Early Childhood Nanny program is designed to professionally prepare and enable students to be in-home child care professionals. They work as a member of the family team to provide for children's physical, emotional, social and intellectual needs.

<b>Program Requirements</b> .....	<b>34 Credits</b>
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 238 Child Growth & Development .....	3
ECE 256 Working w/ Parents, Families .....	3
ECE 265 Working w/Parents & Families w/Disabilities .....	3
HWE 103 Community First Aid & CPR.....	1

<b>Suggested Electives</b> .....	<b>3 Credits</b>
ENG 121 English Composition I .....	3

## EMERGENCY MEDICAL SERVICES

Essential Functions: Ability to communicate verbally; ability to lift, care and balance up to 125 pounds (250 with assistance); ability to interpret written, oral and diagnostic form instructions; ability to use good judgment and remain calm in high-stress situations; ability to work effectively in an environment with loud noises and flashing lights; ability to calculate weight and volumes ratios and read small print, both under threatening time constraints; ability to read and understand English language manuals and road maps; accurately discern street signs and address numbers; ability to document, in writing, all relevant information in prescribed format in light of legal ramifications of such; ability to converse in English with coworkers and hospital staff as to status of patient. Good manual dexterity. Ability to bend, stoop, and crawl on uneven terrain; and the ability to withstand varied environmental conditions such as extreme heat, cold, and moisture. Ability to work in low light, confined spaces and other dangerous environments.

### ASSOCIATE OF APPLIED SCIENCE DEGREE

<b>General Education Requirements</b> .....	<b>Credits</b>
<i>Communication</i> .....	<b>6 Credits</b>
ENG 121 English Composition I <u>OR</u> .....	
ENG 122 English Composition II .....	3
COM 115 Public Speaking .....	3
<i>Mathematics</i> .....	<b>3 Credits</b>
MAT 107 Career Math .....	3

<i>Science/Computer Science</i> .....	<b>5 Credits</b>
BIO 111 General College Biology with Lab .....	5
<i>Social Sciences/Humanities</i> .....	<b>3 Credits</b>
PSY 102 General Psychology II .....	3

<b>Program Requirements</b> .....	<b>30.5 Credits</b>
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 .....	3
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

<b>Suggested Electives..... (Select a minimum of 13 credits)</b>	
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

## EMERGENCY MEDICAL TECHNICIAN: BASIC

### CERTIFICATE

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.

<b>Required Courses</b> .....	<b>Credits</b>
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

NJC 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.

## EMERGENCY MEDICAL TECHNICIAN: INTERMEDIATE

### CERTIFICATE

This course is designed to introduce the student to the theories and practices of advanced level assessment and management of the emergency patient as outlined by the State of Colorado, specifically: establish an intravenous line, provide advanced airway management, perform cardiac monitoring and defibrillation, and medication administration.

Required Courses	Credits
EMS 203 Emergency Medical Technician - Intermediate I	6
EMS 205 Emergency Medical Technician - Intermediate II	6
EMS 270 Clinical EMS Intermediate	3

## 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

General Education Requirements	15 Credits
AGE 102 Agriculture Economics	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 Agri-Business 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 NJC 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 30 Credits

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 NJC 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

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 make application, go through an oral interview and 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 .....	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 Agri-Business 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

**Suggested Electives ..... 9 Credits**

AGP 160 Ranch Horsemanship Skills .....	2
EQT 140 Ranch Horse Versatility .....	3
EQT 240 Ranch Horse Versatility II .....	3

## EQUINE MANAGEMENT - TRAINING

**CERTIFICATE ..... 30 Credits**

**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 NJC Advisor or Program Coordinator. Preference for Equine, Agriculture, or Business courses.

## FIRE SCIENCE TECHNOLOGIES

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 & Transportation
- Arson investigation
- Emergency Medical Response & 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 residential learning opportunities. You will take these characteristics from the classroom to the fire station and throughout your life.

The Fire Science Technology program at NJC offers an Associate of Applied Science degree designed to meet the needs of personnel seeking entry into the fire career fields. Courses are accessible through traditional classroom, online and hybrid formats. The NJC program meets all of the criteria as adopted in the Fire and Emergency Services Higher Education (FESHE) curriculum model. You may also apply prior knowledge and skills earned through other classroom experiences via our Credit for Prior Learning assessment.

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 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 107 Career Math .....	3
PSY 102 General Psychology II .....	3

**Program Requirements ..... 34.5 Credits**

FST 100 Firefighter I .....	9
FST 102 Principles/Emergency Services .....	3
FST 103 Fire Behavior and Combustion .....	3
FST 105 Building Construction for Fire Professionals .....	3
FST 107 HazMat Operations (Level 1) .....	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 Fiefigthing 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 Firefigher II .....	3
FST 106 Fire Prevention .....	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.....	3
FST 204 Principles of Code Enforcement .....	3
FST 205 Fire Investigation I .....	3
FST 253 NIMS .....	3
FST 254 HazMat Technician Level .....	3
FST 259 Wildland Firefigthing Tactics .....	3
FST 280 Internship .....	1-12
EMS 115 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 Clinical .....	1
EDU 250 CTE in Colorado .....	1
EDU 260 Adult Learning & Teaching .....	3
Any GT Pathways Course or AAS Elective on Page 48	

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 NJC certificate and is eligible to register for the Colorado State Firefighter I Exam, which is an IFSAC accredited certificate.

**BASIC LEVEL CERTIFICATE**

**Program Requirements ..... 13 Credits**

FST 100 Firefighter I .....	9
FST 107 HazMat Operations (Level 1) .....	3
PED 101 Conditioning Lab .....	1

**ADVANCED LEVEL CERTIFICATE**

**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 Firefigthing Training .....	2
HPR 102 CPR for Professionals .....	.5
PED 101 Conditioning Lab .....	1

**FIREFIGHTER INSTRUCTOR**

**CERTIFICATE**

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

**FIRST RESPONDER**

**CERTIFICATE**

This 58-hour course is designed to train individuals who are likely to be the first people who arrive on the scene of an emergency to properly assess victims, provide immediate emergency care, and stabilize victims until ambulance personnel arrive.

**Required Courses ..... Credits**

EMS 115 First Responder .....	3
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## INDUSTRIAL MAINTENANCE

### CERTIFICATE

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.

<b>Program Requirements</b>	<b>18.5 Credits</b>
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

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.

<b>Program Requirements</b>	<b>27 Credits</b>
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

This short program prepares students to work as a Certified Nursing Assistant 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.

<b>Required Courses</b>	<b>Credits</b>
NUA 101 Nurse Aide Health Care Skills	4
NUA 170 Nurse Assistant Clinical Experience	1

## PRACTICAL NURSING (PN)

### CERTIFICATE (Exit Option)

Practical Nursing has earned a respected place on the health care team. This program provides qualified individuals the theory and practical skills necessary to meet the occupational entry-level requirements. Practical nurses are trained to give basic bedside nursing care under supervision of a registered nurse, licensed physician or dentist.

The nursing student will have theory, lab, and clinical experiences to assist the student to gain the knowledge, skills, and attitudes of a successful nurse. 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 will be awarded with a grade of a "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 (Pre-requisite courses):

ENG 121 English Composition I	3
HPR 108 Dietary Nutrition	1

OR

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 Math for Clinical Calculations	3
or higher level math course	
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 Credits 54 Credits

## ASSOCIATE DEGREE NURSING

### ASSOCIATE OF APPLIED SCIENCE DEGREE

Associate Degree Nursing (ADN) Program: is a 4 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 the student with the knowledge and hands on 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 the 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 and Physiology I with lab.....	4
BIO 202 Anatomy and 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 and Development .....	3

All Biology (BIO) prerequisites must be completed within 7 years of entry into NJC'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 specific directions on how to apply to the nursing program. Acceptance into the ADN program is a competitive process. Points will be assigned based on the following: grade point average on prerequisites, prior degree, certification as a nursing assistant, nursing pre-admission test results and proof of residency for one year from NJC's service area. Applicants will be selected on total points earned. Once accepted into the program the following must be completed.

- Satisfactorily Pass a Criminal Background Check (not to be done earlier than 90 days of start date 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.....	3
<u>OR</u> Higher Level Math Course	
Social Science Elective .....	3

All Biology (BIO) prefixes and /or science courses are valid for 7 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 Basic of Pharmacology .....	2
NUR 150 Maternal Child Nursing .....	6

\*Optional NUR 169 Transition into Practical Nursing ..... 4

2nd year

NUR 206 Advanced Concepts of Medical-Surgical Nursing I .....	6.5
NUR 211 Psychiatric Mental Health Nursing .....	4
NUR 212 Pharmacology II .....	2
NUR 216 Advanced Concepts of Medical-Surgical Nursing II .....	5
NUR 230 Transition to Professional Nursing .....	4

**Total Required Credits ..... 71.5 Credits**

**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 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
HPR 108 Dietary Nutrition .....	1
<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
BIO 204 Microbiology .....	4
BIO 216 Pathophysiology .....	4
MAT 103 Math for Clinical Calculations .....	3
or higher level math course	
3 credit elective in Social Science .....	3

<b>Program Requirements</b> .....	<b>24.5 Credits</b>
NUR 189 Transition from LPN to ADN .....	3
NUR 206 Advanced Concepts of Medical Surgical Nursing I .....	6.5
NUR 211 Psychiatric Mental Health Nursing .....	4
NUR 212 Pharmacology II .....	2
NUR 216 Advanced Concepts of Medical surgical Nursing II .....	5
NUR 230 Transition to Professional Nursing .....	4

**Transfer block credits from first year..... 21 Credits**

**Total Required Credits ..... 74.5 Credits**

The ADN program is accredited by the Accreditation Commission for Education in Nursing (ACEN). Contact information: 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326, (404) 975-5000.

## WELDING TECHNOLOGY

### ASSOCIATE OF APPLIED SCIENCE DEGREE

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.

#### General Education Requirements .....Minimum 15 Credits

CIS 118 Intro to PC Applications .....	3
COM 115 Public Speaking <u>OR</u>	
COM 125 Interpersonal Communications .....	3
ENG 121 English Composition I <u>OR</u>	
ENG 131 Technical Writing .....	3
MAN 128 Human Relations .....	3
MAT 107 or higher .....	3

#### Program Requirements ..... 40 Credits

WEL 100 Safety for Welders .....	1
WEL 106 Blueprint Read-Welders/Fitters .....	4
WEL 110 Advanced Shielded Metal Arc I .....	4
WEL 113 Oxyfuel and Plasma Cutting .....	2
WEL 124 Intro-Gas Tungsten Arc Welding .....	4
WEL 201 Gas Metal Arc Welding I .....	4
WEL 203 Flux Cored Arc Welding I .....	4
WEL 230 Pipe Welding I .....	4
WEL 231 Pipe Welding II .....	4
WEL 251 Design, Layout & Fabrication .....	4
WEL 263 Applied Metal Properties .....	4
HWE 103 CPR First Aid .....	1

#### Suggested Electives ..... 5 Credits

Any course with prefix: ABM, ACC, AGB, AGE, AGP, AGY, AME, ART (ART 132 only), ASC, ASE, BUS, CAD, DPM, EGG, EIC, ELT, IMA, MAN, MAR, MGD, MIL, PHY, SPA, WEL & WTG.

**Total Credits Required ..... 60 Credits**

## WELDING TECHNOLOGY

### SIX CERTIFICATES

#### Oxy-fuel Certificate (7 credits)

WEL 100 Safety for Welders .....	1
WEL 106 Blueprint Read-Welders/Fitters.....	4
WEL 113 Oxyfuel and Plasma Cutting .....	2

#### SMAW Certificate (9 credits)

WEL 100 Safety for Welders .....	1
WEL 106 Blueprint Read-Welders/Fitters .....	4
WEL 110 Advanced Shielded Metal Arc I .....	4

#### GMAW Certificate (9 credits)

WEL 100 Safety for Welders .....	1
WEL 106 Blueprint Read-Welders/Fitters .....	4
WEL 201 Gas Metal Arc Welding I .....	4

#### FCAW Certificate (9 credits)

WEL 100 Safety for Welders .....	1
WEL 106 Blueprint Read-Welders/Fitters .....	4
WEL 203 Flux Cored Arc Welding I .....	4

#### GTAW Certificate (9 credits)

WEL 100 Safety for Welders .....	1
WEL 106 Blueprint Read-Welders/Fitters .....	4
WEL 124 Intro-Gas Tungsten Arc Welding .....	4

#### Welding Fabricator Certificate (21 credits)

WEL 100 Safety for Welders .....	1
WEL 106 Blueprint Read-Welders/Fitters .....	4
WEL 230 Pipe Welding I .....	4
WEL 231 Pipe Welding II .....	4
WEL 251 Design, Layout, & Fabrication .....	4
WEL 263 Applied Metal Properties .....	4

## WIND ENERGY TECHNICIAN PROGRAM

### ASSOCIATE OF APPLIED SCIENCE DEGREE

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, and 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 Technician 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 .....Minimum 15 Credits**

CIS 118 Intro to PC Applications .....	3
COM 115 Public Speaking <u>OR</u>	
COM 125 Interpersonal Communications .....	3
ENG 121 English Composition I <u>OR</u>	
ENG 131 Technical Writing .....	3
MAN 128 Human Relations .....	3
MAT 107 or higher .....	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**

BUS 115 Intro to Business .....	3
ELT 259 Adv. Programmable Logic Control .....	3
MAT 135 Intro to Statistics .....	3
WEL 140 Welding Practices and Procedures .....	1.5
WTG 280 Wind Technician Internship .....	6
Any Foreign Language .....	3

**Total Credits Required ..... 64 Credits**

**WIND TECHNICIAN CORE**

**CERTIFICATE**

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 NJC.

**Program Requirements ..... 31 Credits**

CIS 118 Intro to PC Applications .....	3
COM 115 Public Speaking <u>OR</u> .....	3
COM 125 Interpersonal Communications .....	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
ENG 121 English Composition I <u>OR</u> .....	3
ENG 131 Technical Writing .....	3
MAN 128 Human Relations .....	3
MAT 107 Career Math .....	3
WTG 100 Intro to Wind Industry .....	3

\*Open to any student. Need signed Background Release of Liability.  
 \*\*Must pass EIC 101 with a 90%.

# Course Descriptions

lab hours  
lecture hours  
credits

## EXAMPLE:

### BIO 111 GENERAL COLLEGE BIOLOGY I WITH LAB

5 CR (4-2)

Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. This course includes laboratory experience. (Contact hours – 90) State Guarantee Transfer Course.

## ACADEMIC ACHIEVEMENT

### AAA 50 SEMESTER SURVIVAL

2 CR (2-0)

Emphasizes basic study skills in order to bolster their chances of completing the current semester successfully (Contact hours – 30)

### AAA 75 QUANTITATIVE LITERACY LAB

1 CR (0-0-1)

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 140. Paired with MAT 50. (Contact hours – 16)

### AAA 76 ALGEBRAIC LITERACY LAB

1 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 (0-0-1)

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 (0-0-2)

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 – 32)

### AAA 79 CAREER MATH WIND LAB

1 CR (0-0-1)

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 95 MATH HELPS

1 CR (1-0)

This course enhances skill development of MAT 121 objectives, including problem solving skills, study skills, and test taking strategies. *Prerequisite:* This course has math placement requirements (see page 139). Paired with MAT 121. (Contact hours-16)

### AAA 101 COLLEGE 101: STUDENT EXPERIENCE

1 CR (1-0)

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



*-Enjoy life, work, and play.*

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

Examines theories and practices associated with successful learning to enhance college success. Areas of study include education and career planning, effective communication, personal management, critical and creative thinking, development of community and awareness of diversity, leadership, and techniques for successful academic performance. Recommended for new and returning students. (Contact hours – 45)

**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 available through Colorado Community College Online (CCOnline).

## AGRICULTURE BUSINESS MANAGEMENT

**ABM 111 RECORDS & BUSINESS PLANNING I 9 CR**

This course is designed to guide the student in the collection of necessary information to implement a computerized record keeping system. Discussion will include computer terminology, application software, balance sheet concepts, accounting principles, computerized accounting reports, and business plan components.

**ABM 112 RECORDS & BUSINESS PLANNING II 9 CR**

This class includes implementation of a computerized record keeping system. Emphasis will be placed on the application and maintenance of an accurate set of computerized financial records, use of a filing system, and compiling a business plan.

**ABM 121 FINANCIAL ANALYSIS I 9 CR**

Actual enterprise cost analysis will be calculated to facilitate the development of whole business projected cash flow statements. All facets of record keeping and updating of data will be emphasized, including refining and maintaining of a current accounting system. This course includes a review and revision of business planning goals and objectives.  
*Prerequisite: Complete set of cash records.*

**ABM 122 FINANCIAL ANALYSIS II 9 CR**

Business analysis through the development of accurate cost and market value accrual balance sheets for the beginning and ending period is included in this class. Emphasis will be on the measurement and analysis of changes between the two balance sheets. Analysis will include the preparation of an accrual income statement. Financial ratios will be generated to understand their importance to business analysis. Data generated from an established record keeping system will provide the basis for the development of these accrual financial statements.  
*Prerequisite: complete set of cash records.*

**ABM 131 COMMODITY MARKETING I 9 CR**

Explores the terminology associated with commodity marketing and management of the risks associated with agricultural production and marketing. Discussion will include cash marketing alternatives as well as the basics of utilizing futures and options contracts. This class includes the initial steps towards the development of a marketing plan. Continued maintenance of an established record keeping system is a must to provide the cost of production data for enterprises. Cost of production figures for all enterprises will be determined. These enterprise calculations will result in the initial establishment of a cost of production trend for all enterprises.  
*Prerequisite: cost of production records for one enterprise.*

**ABM 132 COMMODITY MARKETING II 9 CR**

Marketing alternatives are explored in greater depth. Price behavior will be analyzed using technical and fundamental analysis. The marketing plan will be completed through the application of local marketing alternatives, futures contracts, option contracts, and price behavior information. Cost of production figures for all enterprises will be calculated. The class includes the initial steps toward developing an enterprise trend analysis.  
*Prerequisite: instructor approval.*

**ABM 135 MARKETING & RISK MANAGEMENT I 9 CR**

Teaches students to conduct marketing research and analysis for the initial steps for developing a marketing plan. The focus will be on defining markets, analyzing competition, identification of products/services, pricing, and customer wants and needs. In addition, added value products and niche markets will be explored. The maintenance, refining, or implementation of system to provide accurate sales and expense information will be addressed. Sale and expense calculations will result in the establishment of sale/pricing trends for all enterprises along with margin calculations.

**ABM 136 MARKETING & RISK MANAGEMENT II 9 CR**

Develops an overall marketing plan derived from marketing research and analysis conducted in ABM 135. It includes a look at advertising, promotion, e-commerce, and risk management. This will include the maintenance review of existing software used to track sales and cost information. A trend of historical sales and expenses will be implemented.  
*Prerequisite: ABM 135 ("C" or better).*

**ABM 137 WEB PRODUCTIVITY/UTILIZATION I 9 CR**

Improved understanding and use of the Internet for business productivity. Emphasis will be on understanding and utilizing the tools available and the technical capabilities of the present business in order to develop a web use plan for the business.

**ABM 138 WEB PRODUCTIVITY/UTILIZATION II 9 CR**

Focus is on the business web use plan. Emphasis will be placed on the improved utilization of the Internet and implementation and refinement of the web use plan relating to business operations and industry.  
*Prerequisite: ABM 137 ("C" or better).*

**ABM 141 ADVANCED BUSINESS MANAGEMENT I 9 CR**

This class explores further in-depth financial analysis of the business. Includes a review of existing financial trends and emphasis of pro forma activities for further analysis of the business. The maintenance of accurate accrual records and historical data provide the data basis for the pro-forma activities and measuring the business performance past and present.  
*Prerequisite: Accurate accrual financial records. (Contact hours - 135)*

**ABM 142 ADVANCED BUSINESS MANAGEMENT II 9 CR**

Focuses on revision of the business plan on a periodic basis and strengthening of management skills by focusing on the five main sources of risk. The student will be exposed to various methods of finding resource materials needed to keep the business plan current and to manage for the future. The maintenance of accurate accrual records and historical data provides the foundation needed for analysis.  
*Prerequisite: Completed business plan. (Contact hours - 135)*

**ABM 143 INTEGRATED MANAGEMENT I 9 CR**

Focuses on the research and identification of data and software technology used in the business and industry. In addition to software applications and data use, research will include areas in online opportunities, credit resources and reduction, and managing risks.  
*Prerequisite: instructor approval. (Contact hours - 162.5)*

**ABM 144 INTEGRATED MANAGEMENT II 9 CR**

Focuses on the analysis and evaluation of data and software currently used in the business. The primary focus will be the development of a management plan that incorporates improved use of software and data through the integration of current and/or new software applications.  
*Prerequisite: ABM 143 ("C" or better). (Contact hours - 162.5)*

**ABM 151 RURAL BUSINESS ENTREPRENEURSHIP I 9 CR**

Guides the student in collection of data necessary for a new venture business plan. Focuses on identifying the components of a business plan, defining the business and markets, identifying customer wants and needs, and analyzing the competition. A technological emphasis in the development of a plan is used.



**ABM 152 RURAL BUSINESS ENTREPRENEURSHIP II 9 CR**

Focuses on the financial component of the business plan. Emphasizes the development of financial statements, creation of financial projections with support documentation, and identification of finance issues. A technological approach is used. *Prerequisite: ABM 151 ("C" or better).*

**ABM 153 LEADERSHIP/HUMAN RESOURCE MGT. I 9 CR**

Explores concepts and skills associated with effective leadership and ethics in the business environment. Focus is on concepts relating to leadership management, characteristics of functional teams, stress management, and identification of human resource tools.

**ABM 154 LEADERSHIP/HUMAN RESOURCE MGT. II 9 CR**

Focus on this course is the evaluation and analysis of management practices in the current business environment. Concepts in the development of a leadership and evaluation plan will be looked at. *Prerequisite: ABM 153 ("C" or better).*

**ABM 175 SPECIAL TOPICS 0.5-6 CR**

Provides students with a vehicle to pursue in depth exploration of special topics of interest. *Prerequisite: instructor approval.* (Contact hours - 0 to 90)

**ABM 275 AG/BUSINESS MGMT SPECIAL TOPICS 0.5-6 CR**

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)**

Studies federal and state employment laws and their effects on personnel and payroll records. The course is non-technical and is intended to give students a practical working knowledge of the current payroll laws and actual experience in applying regulations. Students are exposed to computerized payroll procedures. *Prerequisite: ACC 101 or ACC 121 ("C" or better).* (Contact hours - 45)

**ACC 121 ACCOUNTING PRINCIPLES I 4 CR (4-0)**

Introduces the study of accounting principles for understanding of the theory and logic that underlie procedures and practices. Major topics include the accounting cycle for service and merchandising companies, special journals and subsidiary ledgers, internal control principles and practices, notes and interest, inventory systems and costing, plant assets and intangible asset accounting, and depreciation methods and practices. (Contact hours - 60)

**ACC 122 ACCOUNTING PRINCIPLES II 4 CR (4-0)**

Continues the study of accounting principles as they apply to partnerships and corporations. Major topics include: stocks and bonds, investments, cash flow statements, financial analysis, budgeting, and cost and managerial accounting. *Prerequisite: ACC 121 or equivalent ("C" or better).* (Contact hours - 60)

**ACC 125 COMPUTERIZED ACCOUNTING 3 CR (3-0)**

Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls. *Prerequisite: ACC 121 ("C" or better).* (Contact hours - 45)

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

This course is the study of basic concepts of federal income taxation, including gross income, deductions, accounting periods and methods, and property transactions, with emphasis on taxation of individuals and sole proprietorships. (Contact hours - 45)

**ACC 132 TAX HELP COLORADO 2 CR (2-0)**

This course prepares the students for preparation of federal and state income tax returns for individuals. 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)**

This course allows students to prepare actual federal and state income tax returns for individuals in a real time environment. *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 211 INTERMEDIATE ACCOUNTING I 4 CR (4-0)**

Focuses on comprehensive analysis of generally accepted accounting principles (GAAP), accounting theory, concepts and financial reporting principles for public corporations. It is the first of a two-course sequence in financial accounting and is designed primarily for accounting and finance majors. Focuses on the preparation and analysis of business information relevant and useful to external users of financial reports. Explores the theories, principles and practices surveyed in Accounting Principles and critically examines 'real-world' financial analysis and reporting issues. *Prerequisite: ACC 122 or equivalent ("C" or better).* (Contact hours - 60)

**ACC 216 GOVERNMENTAL AND NOT-FOR-PROFIT ACCOUNTING 3 CR (3-0)**

Addresses concepts of budgetary control as a matter of law and public administration theory. Accounting principles and procedures necessary to implement budgetary controls for governmental units and other not-for-profit institutions and organizations are presented. *Prerequisite: ACC 122 or equivalent ("C" or better).* (Contact hours - 45)

**ACC 226 COST ACCOUNTING 3 CR (3-0)**

Study of cost accumulation methods and reports. The concepts and procedures of job order, process, standard, and direct cost systems are covered; budgeting, planning, and control of costs are included. *Prerequisite: ACC 122 or equivalent ("C" or better).* (Contact hours - 45)

**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 a microcomputer package, such as Quickbooks, One-write Plus or similar accounting application, for use in a small business. Focuses on installation, starting the application and converting a manual accounting system to an electronic system. Includes an easy to use bookkeeping system that incorporates all daily transactions and summarizes records in reports for a complete financial picture. (Contact hours - 45)

**ACC 288 ADVANCED TAX PRACTICUM 1-3 CR (1 to 3-0)**

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. *Prerequisites: ACC 132 and ACC 133 or equivalent ("C" or better).* (Contact hours - 37.5)

Additional courses available through Colorado Community College Online (CCOnline).

## AGRI-BUSINESS

### AGB 102 AGRIBUSINESS FOUNDATIONS 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 agri-business 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 AGRI-BUSINESS 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 agri-business operation. (Contact hours - 53)

### AGB 244 INDUSTRY EQUIPMENT TECHNOLOGY 4 CR (2-3)

Studies of sprayer and spreader equipment variations, calibration systems and methods, selection of nozzles and boom spacings and height adjustments, pumps and plumbing, tank, boom and plumbing care and maintenance, dry spreader equipment and dispensing systems and actual operation of floater. (Contact hours – 60)

### 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 AGRI-BUSINESS INTERNSHIP II 0.25-6 CR

Upon successful completion of a first agri-business internship (AGB 199), the student may enroll in this second internship to gain additional experience in an agri-business field.

(Contact hours-10 - 240 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 AGRI-BUSINESS 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 Agri-business 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 & 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 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 – 60)

### AGP 145 BEEF CATTLE CALVING MANAGEMENT 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 the Eastern Colorado Resource Center (E.C.R.C.) south of Sterling. Students will assist with night and weekend calving at the E.C.R.C. (Contact hours – 38)

### AGP 146 ARTIFICIAL INSEMINATION MANAGEMENT 2 CR (1-1.5)

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. *Corequisite: 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 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 AGRICULTURE 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 100 FRESHMAN AG ORIENTATION 0.5 CR (0.5–0)**

An introductory course required for all freshman agriculture majors. This course is designed to aid the student in adjusting to college and preparing for a successful college experience. Emphasis will be placed on introduction to campus facilities and computer labs, effective study skills, and the various careers available in agriculture to help the student define personal and career objectives. (Contact hours – 7.5)

**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 260 WORLD INTERDEPENDENCE - POPULATION & FOOD 3 CR (3–0)**

Covers the study of world population and food production and distribution. Problems and opportunities concerning population and food are discussed in a global context. (Contact hours – 45) State Guarantee 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 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 and 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 available through Colorado Community College Online (CCCOnline).

## 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 will be 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 MODERN 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 handbuilding 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 ADVANCED 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 ADVANCED 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 available through Colorado Community College Online (CCOnline).

## ANIMAL SCIENCE

**ASC 100 ANIMAL SCIENCES** 3 CR (3-0)  
A study of the basic fundamentals of livestock production pertaining to principles of breeding, genetics, nutrition, health, anatomy and physiology of beef, sheep, swine, dairy and horses. Other areas to be emphasized will be selection, breed classifications and identification and the classification and marketing of meat animal products. *Prerequisite: Successful completion of REA 45 or 60 or CCR 92 (“C” or better) OR appropriate placement score (see page 139). Corequisite: 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 and 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 (2-0)  
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 – 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)

## AUTO SERVICE TECHNOLOGY

**ASE 101 AUTO SHOP ORIENTATION** 2 CR (1.5-5)  
Provides students with safety instruction in the shop and on the automobile. Emphasis is placed 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 – 33.75)

**ASE 110 BRAKES I** 2 CR (1-1.5)  
Covers basic operation of automotive braking systems. Includes operation, diagnosis, and basic repair of disc brakes, drum brakes, and basic hydraulic systems. *Prerequisite: ASE 101 (“C” or better).* (Contact hours - 37.5)

**ASE 111 BRAKES II** 2 CR (1-1.5)  
Teaches skills to perform service checks and procedures to automotive foundation braking system and to identify components and types of ABS and traction control systems. *Prerequisite: ASE 101 (“C” or better).* (Contact hours-37.5)

**ASE 120 BASIC AUTOMOTIVE ELECTRICITY** 2 CR (1-1.5)  
Introduces vehicle electricity and includes basic electrical theory, circuit designs, and wiring methods. Focuses on multi-meter usage and wiring diagrams. *Prerequisite: ASE 101 (“C” or better).* (Contact hours – 37.5)

**ASE 122 AUTO ELECTRICAL SAFETY SYSTEMS** 1 CR (0-1.5)  
Teaches the student to identify operation of vehicle lighting systems, Supplemental Inflatable Restraints (SIR), windshield wiper, driver warning systems and vehicle accessories. *Prerequisite: ASE 101 (“C” or better).* (Contact hours – 22.5)

102	COURSE DESCRIPTION
<p><b>ASE 123 BATTERY, STARTING &amp; CHARGING SYS. 2 CR (1–1.5)</b>  Covers the operation, testing, and servicing of the vehicle battery, starting, and charging systems. Includes voltage and amperage testing of starter and generator, load testing and maintenance of a battery.  <i>Prerequisites: ASE 101 &amp; ASE 120 (“C” or better).</i> (Contact hours – 37.5)</p>	<p><b>ASE 165 AUTOMOTIVE MACHINING 2 CR (1–1.5)</b>  Offers instruction in machining processes on the automotive engine using up-to-date machines to recondition connecting rods, bore engine blocks, machine heads for replaceable guides and seats. Brake drum and disc machining is also discussed. <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 37.5)</p>
<p><b>ASE 130 GENERAL ENGINE DIAGNOSIS 2 CR (1–1.5)</b>  Teaches students how to perform basic engine diagnosis to determine condition of engine. This will include engine support systems.  <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 37.5)</p>	<p><b>ASE 175 INTRO TO AUTO REPAIR &amp; MAINTENANCE 2 CR (1–1.5)</b>  Exploration of current topics, issues and activities related to one or more aspects of the named discipline. (Contact hours – 37.5)</p>
<p><b>ASE 134 AUTO. FUEL &amp; EMISSIONS SYSTEMS 2 CR (1–1.5)</b>  Focuses on lecture and laboratory experiences in the diagnosis and repair of automotive fuel emission control systems, filter systems and spark plugs. Course also includes maintenance to diesel (DEF) systems.  <i>Prerequisites: ASE 101 (“C” or better).</i> (Contact hours – 37.5)</p>	<p><b>ASE 210 AUTO POWER/ABS BRAKE SYSTEMS 2 CR (1-1.5)</b>  Covers the operation and theory of the modern automotive braking systems. Includes operation, diagnosis, service, and repair of the anti-lock braking systems, power assist units and machine operations of todays automobile. <i>Prerequisite: ASE 110</i> (Contact hours - 37.5)</p>
<p><b>ASE 140 STEERING &amp; SUSPENSION I 2 CR (1–1.5)</b>  Focuses on lecture and related experiences in the diagnosis and service of suspensions and steering systems and their components.  <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 37.5)</p>	<p><b>ASE 220 SPECIALIZED ELECTRONICS TRAINING 2 CR (1–1.5)</b>  Provides a systematic approach to automotive electrical systems. Builds from the basic electrical principles and concepts through semiconductors and microprocessors. Features on-bench exercises. Students practice diagnostic procedures that have applications to present and future automotive electronics and electrical systems. <i>Prerequisites: ASE 101 &amp; ASE 120 (“C” or better).</i> (Contact hours – 37.5)</p>
<p><b>ASE 141 STEERING &amp; SUSPENSION II 2 CR (1–1.5)</b>  Covers design, diagnosis, inspection, and service of suspension and steering systems used on light trucks and automobiles. Course includes power steering and SRS service. <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours - 37.5)</p>	<p><b>ASE 221 AUTO/DIESEL BODY ELECTRICAL 4 CR (1–4.5)</b>  Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories. <i>Prerequisites: ASE 101 &amp; ASE 120 (“C” or better).</i> (Contact hours – 82.5)</p>
<p><b>ASE 150 MANUAL DRIVE TRANS &amp; AXLE 2 CR (1–1.5)</b>  Studies the operating principles and repair procedures relating to axle-shaft and universal joints. <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 37.5)</p>	<p><b>ASE 231 AUTO COMPUTERS &amp; IGNITION SYSTEMS 2 CR (1–1.5)</b>  Focuses on lecture and laboratory experiences in the inspection and testing of typical computerized engine control systems.  <i>Prerequisites: ASE 101 &amp; ASE 120 (“C” or better).</i> (Contact hours – 37.5)</p>
<p><b>ASE 151 MANUAL TRANS/TRANSAXLES &amp; CLUTCHES 2 CR (1–1.5)</b>  Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive manual transmissions, transaxles and clutches and related components. <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 37.5)</p>	<p><b>ASE 233 AUTO FUEL INJECTION &amp; EMISSIONS 4 CR (2–3)</b>  Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.  <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 75)</p>
<p><b>ASE 152 MANUAL TRANS/TRANSAXLES &amp; CLUTCHES II 2 CR (1–1.5)</b>  Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all wheel drive units.  <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 37.5)</p>	<p><b>ASE 235 DRIVEABILITY &amp; DIAGNOSIS 2 CR (1–1.5)</b>  Emphasizes lecture and related laboratory experience in diagnostic techniques and the use of diagnostic scan tools, oscilloscopes, lab scopes, multi-meters and gas analyzers. Students diagnose live vehicle driveability problems. <i>Prerequisites: ASE 101 &amp; ASE 120 (“C” or better).</i> (Contact hours – 37.5)</p>
<p><b>ASE 153 AUTO DRIVE AXLE O/H 1 CR (0–1.5)</b>  Teaches the student skills to check, inspect, and replace parts necessary to rebuild differential assembly. <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 22.5)</p>	<p><b>ASE 240 &amp; STEERING &amp; SUSPENSION III 2 CR (1-1.5)</b>  Emphasizes lecture and related experiences in the diagnosis and service of electronic suspensions and steering systems and their components.  <i>Prerequisites: ASE 101 &amp; ASE 140 (“C” or better).</i> (Contact hours – 37.5)</p>
<p><b>ASE 154 MANUAL TRANS/TRANSAXLE O/H 1 CR (0–1.5)</b>  Covers operation, diagnosis and repair procedures of manual transmission and transaxle assemblies. <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 22.5)</p>	<p><b>ASE 250 AUTOMOTIVE TRANSMISSION/ TRANSAXLE SERVICES 1 CR (0–1.5)</b>  Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation, remove and re-install transmission/transaxle, and replacement of components.  <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 22.5)</p>
<p><b>ASE 160 AUTO ENGINE REPAIR 2 CR (1–1.5)</b>  Focuses on lecture and laboratory experiences in the service of cylinder head, valve-train components and components of the cooling system. Course also includes engine removal and re-installation and re-mounting systems. <i>Prerequisite: ASE 101 (“C” or better).</i> Contact hours – 37.5)</p>	<p><b>ASE 251 AUTO TRANS/TRANSAXLE REPAIR 3 CR (1.5-2.5)</b>  Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation, remove and re-install transmission/transaxle, and replacement of components.  <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 60)</p>
<p><b>ASE 161 ENGINE REPAIR &amp; O/H 3 CR (1-3)</b>  Focuses on lecture and laboratory experiences in the disassembly, diagnosis and reassembly of the automotive engine. Topics include the diagnostic and repair procedures for the engine block and head assemblies. <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 60)</p>	<p><b>ASE 252 ADVANCED AUTOMATIC TRANS. O/H 2 CR (.5-2.25)</b>  Provides laboratory experiences with a variety of customer work in the areas that the student received training during previous automotive transmission classes. <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 41.25)</p>
<p><b>ASE 162 AUTO ENGINE SERVICE 2 CR (1-1.5)</b>  Covers engine sealing requirements and repair procedures; engine fasteners, bolt torque and repair of fasteners. Course will also cover cooling system and basic engine maintenance. <i>Prerequisite: ASE 101 (“C” or better).</i> (Contact hours – 37.5)</p>	

**ASE 264 INTRO TO AUTO HEATING/AC 1 CR (0–1.5)**

Covers basic operation of the Heating and Air Conditioning components. *Prerequisite: ASE 101 ("C" or better).* (Contact hours – 22.5)

**ASE 265 HVAC SYSTEMS 4 CR (2-3)**

Emphasizes lecture and related laboratory experiences in the diagnosis and service of vehicle heating and air conditioning systems and their components. *Prerequisite: ASE 101 ("C" or better).* (Contact hours – 75)

**ASTRONOMY****AST 101 ASTRONOMY I 4 CR (3–2)**

Focuses on the history of astronomy, the tools of the astronomer and the contents of the solar system including the planets, moons, asteroids, comets, and meteoroids. Incorporates laboratory experience. *Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Corequisites: CCR 94 and ENG 121.* (Contact hours – 75) State Guarantee Transfer Course.

**AST 102 ASTRONOMY II 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. Incorporates laboratory experience. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Corequisites: CCR 94 and ENG 121.* (Contact hours – 75) State Guarantee Transfer Course.

**BIOLOGY****BIO 103 PRINCIPLES OF ANIMAL BIOLOGY 3 CR (3–0)**

Introduces the student to the study of animals from the cellular level to the interactions of the organism within its environment, and their ecological contributions. This course includes principles of evolution, animal ecology, animal architecture, taxonomy, and phylogeny. It also includes the study of animal diversity, emphasizing the characteristics and classifications of animal phyla and major classes. (Contact hours – 45) State Guarantee Transfer Course.

**BIO 104 BIOLOGY: A HUMAN APPROACH 4 CR (3–1)**

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 Guarantee Transfer Course.

**BIO 105 SCIENCE OF BIOLOGY 4 CR (3–2)**

Designed for non-science students. Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Biology as a science—a process of gaining new knowledge—is explored as is the impact of biological science on society. This course includes laboratory experience. (Contact hours – 75) State Guarantee Transfer Course.

**BIO 111 GENERAL COLLEGE BIOLOGY I WITH LAB 5 CR (4–2)**

Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. This course includes laboratory experience. *Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Corequisite: CCR 94 and ENG 121.* (Contact hours – 90) State Guarantee Transfer Course.

**BIO 112 GENERAL COLLEGE BIOLOGY II WITH LAB 5 CR (4–2)**

A continuation of General College 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 Guarantee 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 Guarantee Transfer Course.

**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 Guarantee Transfer Course.

**BIO 202 HUMAN ANATOMY AND 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. This is the second semester of a two-semester sequence. *Prerequisite: 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 Guarantee Transfer Course.

**BIO 204 MICROBIOLOGY 4 CR (3–3)**

Designed for health science majors. Examines microorganisms with an emphasis on their structure, development, physiology, classification, and identification. The laboratory experience includes culturing, identifying, and controlling microorganisms with an emphasis on their role in infectious disease. *Prerequisite: BIO 111 or equivalent ("C" or better), OR instructor approval.* (Contact hours – 105) State Guarantee Transfer Course.

**BIO 208 GENERAL COLLEGE MICROBIOLOGY 5 CR (4–3)**

Designed for biology and health science majors. Surveys microorganisms with an emphasis on their structure, development, physiology, classification, and identification. Includes microbial diversity, functional anatomy, biochemistry, genetics, ecology, and disease. Mandatory hands-on laboratory experience covers sterile technique, microscopy, culture procedures, and biochemical and genetic analysis. *Prerequisite: BIO 111 ("C" or better) OR instructor approval.* (Contact hours - 105) State Guarantee Transfer Course.

**BIO 211 CELL BIOLOGY 4 CR (3–2)**

Involves an intensive study of the cell and its organelles. Emphasis will be on the molecular mechanisms involved in cell communication, metabolism, motility, genetics, growth, and reproduction. Includes a laboratory experience. *Prerequisite: BIO 111 or equivalent ("C" or better), OR instructor approval.* (Contact hours – 75)



**BIO 216 PATHOPHYSIOLOGY** 4 CR (3-2)  
Focuses on the alterations in physiological, cellular, and 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 and 202 ("C" or better) OR instructor approval. Contact hours – 75)

Additional courses available through Colorado Community College Online (CCOnline).

## BUSINESS

**BUS 102 ENTREPRENEURIAL OPERATIONS** 3 CR (3-0)  
Covers the major aspects of small business management to enable the entrepreneur to successfully begin his own 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). *Corequisite*: 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 EDUCATION/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 student 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 and terms used in export documentation and export finance; the 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 BUSINESS COMMUNICATION AND REPORT WRITING** 3 CR (3-0)  
Emphasizes effective business writing: letters, memoranda, reports, application letters, and resumes. Also, the course will include 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, and the 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 138). (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 available through Colorado Community College Online (CCOnline).

## 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.

*Prerequisites: This course has reading placement requirements (see page 139).* (Contact hours - 75)

**CCR 93 STUDIO D 3 CR (3-0)**

Integrates and contextualizes reading and writing strategies tailored to a co-requisite 100-level course within one or more of the four discipline strands. The four discipline strands are defined as: Communications, Science, Social Science, and Arts and Humanities. Non-GT courses are not eligible for this consideration. Students will read and understand complex discipline-specific 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 - 45)

**CCR 94 STUDIO 121 3 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 available through Colorado Community College Online (CCCOnline).

**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 103 AGRICULTURAL CHEMISTRY 4 CR (3-1.5)**

Introduces the basic concepts of chemistry to the students. Areas covered are designed to focus on chemical concepts that a student needs in taking agriculture related courses. Time will also be spent on basic organic compounds- their physical and chemical properties. (Contact hours - 68)

**CHE 107 FUNDAMENTALS OF GENERAL CHEMISTRY 5 CR (4-2)**

Focuses on the study of measurement, states of matter, atomic/molecular theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base chemistry, gas laws, condensed states of matter, oxidation-reduction reactions periodicity, and chemical equilibrium. Designed for students with no previous chemistry background and need one semester of general chemistry. Includes laboratory experiments. *Prerequisite: MAT 55 ("C" or better).* (Contact hours - 90)

**CHE 111 GENERAL COLLEGE CHEMISTRY I W/LAB 5 CR (4-3)**

For science and engineering majors. Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry and thermochemistry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory and molecular orbital theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments.

*Prerequisite: 1 yr. high school chemistry or equivalent. Corequisite: MAT 121 or instructor approval.* (Contact hours - 105) State Guarantee Transfer Course.

**CHE 112 GENERAL 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 205 INTRODUCTORY ORGANIC CHEMISTRY 5 CR (4-3)**

Focuses on compounds associated with the element carbon, their reactions, and synthesis. Includes structure, physical properties, reactivities, synthesis and reactions of aliphatic hydrocarbons and selected functional group families including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids. Covers nomenclature, stereochemistry, and reaction mechanisms. Includes reactions and reaction mechanisms of aromatic compounds. Designed for students needing one semester of organic chemistry.

*Prerequisite: CHE 107 OR CHE 112 ("C" or better)* (Contact hours - 105)

**CHE 208 INTRODUCTION TO ORGANIC AND BIOCHEMISTRY 5 CR (4-3)**

Introduces some of the major topics in modern organic chemistry and biochemistry focusing on relating structure and behavior of molecules to their functions. The chemistry of organic molecules based on their functional groups, proteins, carbohydrates, and lipids is studied. The basic conceptual background is provided to allow the student to understand disease mechanisms, clinical lab tests and drug effects.

*Prerequisites: CHE 107 OR CHE 111 & 112 ("C" or better).* (Contact hours - 105)

**CHE 211 ORGANIC CHEMISTRY I W/LAB 5 CR (4-3)**

Designed for chemistry, premedical and preveterinary 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, 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)**

Continuation of CHE 211. Continues the investigation into the chemistry of carbon-based compounds, their reactions and synthesis including the structure, physical properties, reactivities, and synthesis of organic functional groups not covered in the first semester. The course explores functional groups including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids and the reactions and reaction mechanisms of aromatic compounds. An introduction to biochemical topics may be included if time permits. Laboratory experiences demonstrate the above concepts and the laboratory techniques associated with organic chemistry.

*Prerequisite: CHE 211 ("VC" 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.*

Additional courses available through Colorado Community College Online (CCCOnline).

## COMPUTER INFORMATION SYSTEMS

### CIS 110 INTRODUCTION TO THE PC 1 CR (1-0)

Provides the beginning computer user with hands-on experience in the elementary use of the personal computer. This course introduces the basic feature of and the terminology associated with personal computers, including topics such as database, spreadsheet, and word processing. (Contact hours - 15)

### CIS 115 INTRODUCTION TO COMPUTER INFORMATION SYSTEMS 3 CR (3-0)

Focuses on an overview of the needs for and roles of computer information systems. Emphasizes computer requirements in organizations, history, hardware functions, programming, systems development, and computer operations. Introduces computer applications. *Prerequisite: KEYBOARD PROFICIENCY OF 30 WPM.* (Contact hours - 45)

### CIS 117 INTRODUCTION TO TECHNICAL APPLICATIONS 2 CR (2-0)

Reviews standard software packages available to support a microcomputer-based workstation. Included are description of hands-on work with word processors, spreadsheets, electronic presentations, and other common application packages. (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 available through Colorado Community College Online (CCOnline).

## COMMUNICATION

### COM 115 PUBLIC SPEAKING 3 CR (3-0)

Combines the basic theory of speech communication with public speech performance skills. Emphasizes is 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 219 GROUP DYNAMICS 3 CR (3-0)

Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation. (Contact hours - 45)

### 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 available through Colorado Community College Online (CCOnline).

## COSMETOLOGY

(All COS, EST and NAT courses are a part of the Cosmetology Program and cannot be taken as independent courses)

### COS 103 SHAMPOOS, RINSES, & CONDITIONERS I 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, 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 determine the client's appropriate haircut. Incorporates practical applications of hair cutting techniques in specialized classes or in a supervised salon (clinical 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 INTRODUCTION 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 affects these on the student, licensed individual, salons and school owners. (Contact hours - 15)

**COS 160 INTRODUCTION TO DISINFECTION, SANITATION & SAFETY 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 INTERMEDIATE I: DISINFECTION, SANITATION & SAFETY 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 (clinical) setting or specialized class. *Prerequisite: COS 160 ("C" or better).* (Contact hours - 22.5)

**COS 203 SHAMPOOS, RINSES & CONDITIONERS II 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 221 ADVANCED HAIR CUTTING 2 CR (0-3)**

Focuses on advanced cutting techniques using all the cutting tools. Emphasizes current fashion trends. Includes student preparation for the State Licensure examination. *Prerequisite: COS 220 ("C" or better).* (Contact hours - 45)

**COS 230 INTERMEDIATE II: HAIR 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 231 ADVANCED HAIR STYLING 1 CR (0-1.5)**

Focuses on theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon (clinical) work and specialized classes. Includes student preparation for the State Board Licensing Examination relating to hairstyling. *Prerequisite: COS 230 ("C" or better).* (Contact hours - 22.5)

**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 241 ADVANCED CHEMICAL TEXTURE 1 CR (0-1.5)**

Focuses on advanced techniques to prepare the student for employment and the changes in current industry standards. Instruction is provided in specialized classes or supervised salon (clinical) setting. Includes student preparation for the State Board Licensing Examination pertaining to permanent waves and chemical relaxers. *Prerequisite: COS 240 ("C" or better).* (Contact hours - 22.5)

**COS 250 MANAGEMENT, ETHICS, INTERPERSONAL SKILLS & SALESMANSHIP 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: DISINFECTION, SANITATION & SAFETY 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: DISINFECTION, SANITATION & SAFETY** **1 CR (0-1.5)**

Provides advanced training on decontamination and safety practices in a supervised salon and/or classroom setting. Examines advanced techniques that prepare the student for employment. Includes student preparation for the State Board Licensing Examination in decontamination and safety for all aspects of the industry. Study of OSHA requirements for schools and salon are done in a theory or practical setting.

*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 instruction. (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 of Cosmetology Licensing Exam. Hours will be arranged.

*Prerequisite:* Student must have acquired 1,000 hours or more. (Contact hours - 15 - 45)

**COS 290 PROFESSIONAL DEVELOPMENT/ CONTINUING EDUCATION** **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; 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 criminalistic 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, a description of institutional operation, programming and management, and 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 147 INSTITUTIONAL-BASED CORRECTIONS** **3 CR (3-0)**

Focuses on a study of the Correctional Institution, including the role of correctional personnel relative to institutional programs.

*Prerequisite:* CRJ 110 ("C" or better). (Contact Hours - 45)

**CRJ 150 VICTIMS OF CRIME AND TRAUMA** **3 CR (3-0)**

Introduces the student to the role the crime victim plays in the Criminal Justice System. The traditional response that a crime victim receives from the system will be studied and the psychological, emotional and financial impact these responses have on victimization will be analyzed. (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 law 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 searches, police drawings, and recognition and collection of evidence. (Contact hours - 45)

**CRJ 210 CONSTITUTIONAL LAW** **3 CR (3-0)**

Focuses on the powers of government as they are allocated and defined by the United States Constitution. Includes intensive analysis of United States Supreme Court decisions (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.

**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 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 available through Colorado Community College Online (CCCOonline).

**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 used for designing and building Web pages that are easy to use and 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. *Instructor approval.*

Additional courses available through Colorado Community College Online (CCCOonline).

**COOPERATIVE WORK EXPERIENCE****CWE 187 COOPERATIVE WORK EXPERIENCE****2 to 8 CR (2 to 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 spent on the job and completion of additional requirements such as learning objectives, record of experiences, and final term report.  
(Contact hours - 80-320)

**CWE 287 COOPERATIVE WORK EXPERIENCE****2 to 8 CR (2 to 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 spent on the job and completion of additional requirements such as learning objectives, record of experiences, and final term report. (Contact hours - 80-320)

**DANCE****DAN 106 HIP HOP DANCE II****1 CR (0-2)**

Includes traditional jazz, ballet and street dancing techniques as well as. Warm-up exercises such as body toning and stretching. Students will learn diagonal and center step combinations leading to hip-hop dance routines.

**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 to Student to enjoy the art of dancing for leisure time activity. (Contact Hours -- 30)

**DAN 121 JAZZ I****1 CR (0-2)**

Introduces the basic techniques and vocabulary of jazz dance and the basic elements of dance. Focuses on movement oriented dance, comprised of warm-up exercises, center combinations, traveling combinations and cool down. (Contact Hours - 30)

**DAN 129 INTRODUCTION TO DANCE****1 CR (0-2)**

Introduces the art of dance and movement expression from a variety of viewpoints: historical, cultural, aesthetic, critical and creative. Examines the art and craft of dance as an expression of culture and community while exploring personal expression, imagery, dance techniques and performance qualities. (Contact hours – 30)

**DAN 130 DANCE SAMPLER****1 CR (0-2)**

Introduces the beginning dancer to popular dances through a social dance sampler in Salsa, Swing, and Country Western Dance technique, footwork, body posturing, rhythms, and dance floor etiquette. Examines a variety of dances such as Salsa's Mambo, Cha-Cha, and Rumba; Swing's Lindy Hop (jitterbug); and Country Western's Two Step, Cowboy Waltz, Cotton-Eyed Joe and various Country Western line dances.  
(Contact hours – 30)

**DAN 143 TAP I****1 CR (0-2)**

Introduces basic tap dance movements and techniques. The shuffle, ball change, brush, flap heel drop, stomp, and stamp step are covered.  
(Contact Hours - 30)

## DIESEL POWER MECHANICS

### DPM 101 DIESEL SHOP ORIENTATION 2 CR (2-0)

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 - 30)

### DPM 103 DIESEL ENGINES I 4 CR (2-3)

Covers the theory and operation and repair of diesel engines with emphasis on cylinder heads and valve trains diagnosis and repair. Also introduces the cooling system's importance with diagnosis and repair. Enables the student to diagnose, test, and repair cylinder heads and cooling systems on diesel engines. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 75)

### DPM 105 HEAVY DUTY POWERTRAINS I 3 CR (1.5-2.25)

Focuses on drive axles and universal joints of heavy duty trucks and equipment. Students will cover operations, tests, removal, inspections, and repair of heavy duty drivelines, axles, and differentials. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 56.25)

### DPM 106 DIESEL FUEL SYSTEMS 3 CR (1.5-2.25)

Covers the theory of operation and repair of fuel injection systems. Provides laboratory assignments that involve disassembly, assembly, and service procedures on fuel system components. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 56.25)

### DPM 111 CAB & ELECTRICAL PMI 1.5 CR (1-75)

Enables the student to perform preventive maintenance on heavy equipment and truck cab and electrical systems, and complete appropriate maintenance records. Addresses the process of diagnostics and troubleshooting. Focuses on the importance of preventive maintenance. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 26.25)

### DPM 112 ENGINE SYSTEMS PMI 1.5 CR (1-75)

Enables the student to perform preventive maintenance on heavy equipment and truck diesel engine systems, and complete appropriate maintenance records. Addresses the process of diagnostics and troubleshooting. Focuses on the importance of preventive maintenance. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 26.25)

### DPM 120 BASE ELECTRICITY 2 CR (1-1.5)

Introduces heavy duty equipment electricity to include basic electrical theory, circuit designs, and wiring methods, multimeter usage, and wiring diagrams. The focus is the demonstration of proper basic test procedures of electrical circuits. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 37.5)

### DPM 121 HYDRAULIC SYSTEMS I 3 CR (1-3)

Offers instruction on the basic fundamentals of hydraulics and their applications. Diagnosis, service, and testing along with safety are stressed within this course. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 60)

### DPM 122 HYDRAULIC SYSTEMS II 3 CR (1-3)

Offers instruction on the repair, replacement, measuring, and subsequent adjustments of components. Identification and repairing pumps, control valves, and cylinders are stressed within this course. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 60)

### DPM 126 CHARGING & STARTING 3 CR (1-3)

Includes the operation, testing and servicing of heavy duty vehicle battery, starting and charging systems. Includes voltage/voltage drop testing of starting and charging systems, diagnosis, maintenance, load testing and repair of systems. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 60)

### DPM 140 HEAVY DUTY STEERING & SUSPENSION I 3 CR (1.5-2.25)

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 - 56.25)

### DPM 203 DIESEL ENGINES II 4 CR (2-3)

Covers the theory of operation and repair of diesel engines with emphasis on the cylinder block in big bore engines. Enables the student to disassemble, inspect, and reassemble engines. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 75)

### DPM 205 HEAVY DUTY POWERTRAINS II 3 CR (1.5-2.25)

Teaches students to diagnosis clutch and transmission problems. Focuses on clutch, transmission, additional assembly operation, testing, and repair. Students will learn removal, rebuilding, inspection, repairing, and replacement of all components. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 56.25)

### DPM 206 HEAVY DUTY BRAKES I 3 CR (1-3)

Focuses on the various braking systems incorporated in heavy-duty trucks and heavy equipment. Includes a study of hydraulic brake systems and covers the diagnosis and service of the mechanical and electrical components. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 60)

### DPM 207 HEAVY DUTY BRAKES II 3 CR (1-3)

Teaches instruction in general service and maintenance procedures for the heavy-duty truck air brake system and its related pneumatic components. Operational checks, performance testing, and verifying system compliance with regulations (FMVSS No. 121) will be discussed. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 60)

### DPM 208 H/D AUTO/ELEC TRANS DIAGNOSIS 1 CR (.5-75)

Provides laboratory hands on experiences in the diagnosis of electrically controlled heavy duty transmissions. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 18.75)

### DPM 210 AIR INDUCTION & EXHAUST 2 CR (1-1.5)

Covers the theory of operation and repair of turbochargers, superchargers, intercoolers, various induction and exhaust systems. Examines factors regulating engine performance failure, and procedures for reclaiming engine performance. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 37.5)

### DPM 211 DRIVETRAIN & STEERING PMI 1.5 CR (1-75)

Focuses on preventive maintenance of heavy duty truck & 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. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 26.25)

### DPM 212 BRAKE SYSTEMS PMI 1.5 CR (1-75)

Focuses on preventive maintenance of heavy duty truck & 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. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 26.25)

### DPM 222 HEAVY DUTY LIGHTING & INSTRUMENTATION 3 CR (1-3)

Provides students with diagnosis and repair of lighting systems found on medium/heavy duty trucks and equipment. Emphasis on inspecting and testing of electrical circuits, switches and interfacing through data bus with on board computers. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 60)

### DPM 223 BODY ELECTRICAL 3 CR (1-3)

Provides a comprehensive study of the theory, operation, diagnosis, and repair of the heavy duty vehicle body and safety electrical systems and accessories. *Prerequisite: DPM 101 ("C" or better).* (Contact hours - 60)

**DPM 240 HEAVY DUTY STEERING & SUSPENSION II****3 CR (1.5-2.25)**

Emphasizes lecture and related lab in the diagnosis and service of Heavy Duty standard and air assisted steering along with chassis and frame alignment. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 56.25)

**DPM 264 H/D HEATING & VENTILATION****2 CR (1-1.5)**

Emphasizes lecture and related laboratory experiences in the diagnosis, service, and repair of equipment heating and ventilation systems.

*Prerequisite: DPM 101 ("C" or better).* (Contact hours – 37.5)

**DPM 265 H/D A/C SYSTEMS SERVICE****3 CR (1-3)**

Emphasizes lecture and related laboratory experiences in the diagnosis, service and repair of heavy duty vehicle air conditioning systems and their components. *Prerequisite: DPM 101 ("C" or better).* (Contact hours – 60)

**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 100 PRE-LICENSING TRAINING FOR FAMILY CHILD CARE PROVIDERS****1 CR (1-0)**

Provides the educational training necessary to meet the hours and categories of training required by the Colorado Department of Human Services to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two. Upon completion of 15 hours of training, in the areas listed below, the student will have met the academic training requirements of the Colorado Department of Human Services, needed to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two. (Contact hours - 15)

**ECE 101 INTRODUCTION TO EARLY CHILDHOOD PROFESSION****3 CR (3-0)**

Provides an introduction to Early Childhood Education. Includes the eight key areas of professional knowledge: Child Growth and Development; Health, Nutrition and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism; Administration and Supervision. Focuses on ages birth through age 8. (Contact hours - 45)

**ECE 102 INTRODUCTION TO EARLY CHILDHOOD LAB TECHNIQUES****3 CR (1-4)**

Focuses on a classroom seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, to practice appropriate interactions, and to develop effective guidance and management techniques. Addresses ages birth through age eight. *Prerequisite or Corequisite: ECE 101 ("C" or better).* (Contact hours - 75)

**ECE 103 GUIDANCE STRATEGIES FOR CHILDREN****3 CR (3-0)**

Explores guidance theories, applications, goals, techniques and factors that influence expectations, classroom management issues, and prosocial skills. Addresses ages birth through age 8. (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 screening 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 2. *Prerequisite or Corequisite: 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. Explores current topics, issues and activities related to one or more aspects of the early childhood profession. (Contact hours - 45)

**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 a key factor for optimal growth and development of young children. Includes nutrient knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities and communication with families. Addresses ages from prenatal through age 8. (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 DEVELOPMENT: METHODS AND TECHNIQUES** **3 CR (3-0)**

Provides an overview of early childhood curriculum development. Includes processes for planning and implementing developmentally appropriate environments, materials and experiences, and quality in early childhood programs. Focuses on birth through age 8. (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 ages 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 ages 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. Emphasizes physical, cognitive, language, social and emotional domains and the concept of the whole child and how adults can provide a supportive environment. Ages addressed: prenatal through age 12. This course has an early childhood laboratory component. (Contact hours - 45)

**ECE 240 ADMINISTRATION OF EARLY CHILDHOOD CARE AND EDUCATION PROGRAMS** **3 CR (3-0)**

Examines Colorado's minimal licensing requirements, as well as optimal standards pertaining to the operation of programs for young children. Focuses on the director's administrative skills and role as a community advocate for young children. Addresses ages birth through age 12. *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. Includes director-staff relationships, staff development, leadership strategies, parent-professional partnerships, and community interaction. (Contact hours - 45)

**ECE 256 WORKING WITH PARENTS, FAMILIES, & COMMUNITY SYSTEMS** **3 CR (3-0)**

Examines attitudes and family values systems and how they affect parent-professional partnerships. Addresses communication, problem-solving and conflict resolution strategies. Plans effective activities and programs for parent involvement. Addresses ages birth through age 8. (Contact hours - 45)

**ECE 260 EXCEPTIONAL CHILD** **3 CR (3-0)**

Presents an overview of typical and atypical developmental progression. Includes planning techniques, learning strategies, legal requirements and accommodations and adaptations that are necessary in order to create an integrated classroom environment for a child with a wide range of exceptionalities. Focuses on ages birth through age 8. *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 EDUCATION** **1-7 CR**

Provides students with advanced field experience opportunities in early childhood education programs. *Prerequisites or Corequisite: ECE 108 and ECE 209 ("C" or better).* (Contact hours - 15-105)

Additional courses available through Colorado Community College Online (CCCOnline).

**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 Guarantee Transfer Course.

**ECO 105 INTRODUCTION TO ECONOMICS** **3 CR (3-0)**

This course is a survey of economics. It is designed as a beginning economics class. The course covers economics theories, supply and demand, national income accounting, money and banking, market structures and contemporary economic issues. (Contact hours - 45)

**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 Guarantee 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 Guarantee Transfer Course.

**ECO 211 GENDER IN THE ECONOMY** **3 CR (3-0)**

Introduces students to how gender factors into the economy. It includes the concepts of femininity and masculinity and how these concepts play a role in consumption, labor and marriage markets, poverty and inequality, and globalization. (Contact hours - 45) State Guarantee Transfer Course.

Additional courses available through Colorado Community College Online (CCCOnline).

**EDUCATION****EDU 101 CRLA TUTOR CERTIFICATION-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 to 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 to 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 250 CTE IN COLORADO** 1 CR (1-0)  
Explores common elements of American community college philosophy and current practices. It details the philosophy of Career and Technical Education (CTE), the federal Carl D. Perkins legislation and related guidelines for CTE, national and state regulatory agencies, the CCCS program approval process, enrollment management and advising strategies, relevant local and national issues, and quality assurance principles. (Contact hours - 15)

**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 applications, 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 to 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 to 90)

Additional courses available through Colorado Community College Online (CCCOnline).

## 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  
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. (Contact hours - 15-90)

## ELECTRICITY INDUSTRIAL/ COMMERCIAL

**EIC 101 JOB TRAINING AND SAFETY** 3 CR (2-1.5)  
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 equipments. (Contact hours - 52.5)

**EIC 220 INDUSTRIAL ELECTRICAL CONTROLS** 4 CR (1.5-3.75)  
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 106, ELT 252, & WTG 110 ("C" or better).* (Contact hours - 78.75)

## ELECTRONICS

### ELT 106 FUNDAMENTALS OF AC/DC 4 CR (2-3)

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. *Corequisite: EIC 101 ("A" or better).* (Contact hours - 75)

### ELT 107 FUNDAMENTALS OF INDUSTRIAL ELECTONICS 3 CR (1-3)

Provides a basic knowledge of generators , motors, and the solid state devices and digital techniques used for industrial control applications. *Prerequisite: EIC 101 ("A" or better).* (Contact hours - 60)

### ELT 252 MOTORS AND CONTROLS 3 CR (1-3)

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: EIC 101 ("A" or better).* (Contact hours - 60)

### ELT 258 PROGRAMMABLE LOGIC CONTROLLERS 3 CR (1-3)

Covers the fundamentals of programmable logic controllers (PLCs) as they are applied in robotics and automation. Includes history, terminology, typical applications, hardware, and software. Incorporates lab and project activities that address operating, monitoring, programming, troubleshooting, and repairing PLC controlled lab trainers as well as actual industrial equipment. *Prerequisite: EIC 101 ("A" or better).* (Contact hours - 60)

### ELT 259 ADVANCED PROGRAMMABLE LOGIC CONTROL 3 CR (1.5-2.25)

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, diagnostics, Human Machine Interfaces (HMI), introduction to automation networking, and system integration. Incorporates lab and project activities that address designing, operating, monitoring, programming, analyzing, troubleshooting, and repairing PLC controlled lab trainers as well as actual industrial equipment. (Contact hours - 56.25)

## 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, providing supportive care until advanced EMS help arrives. *Prerequisite: This course has reading placement requirements (see page 139).* *Corequisite: 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. *Corequisites: HPR 102, EMS 122, EMS 123 and EMS 170.* (Contact hours - 30)

### 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 pathophysiology when assessing and treating the medical patient. *Corequisites: 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 and injury patters will provide the student with the ability to assess and manage the trauma patient. *Corequisites: EMS 121, EMS 122 and EMS 170.* (Contact hours - 37.5)

### 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 134 THE GERIATRIC PATIENT 1 CR (1-0)

Focuses on working with the elderly population and is designed for healthcare providers (EMTs, paramedics, nurses). Utilizes various readings, assignments, papers, experiences and meetings with elderly people and patients to discover new ways of viewing the elderly and communicating and working with the geriatric patient. Covers the process of assessment of the elderly patient. *Prerequisite: Anyone who may interact with elderly patients in their work environment.* (Contact hours - 15)

### EMS 150 PEDIATRIC EDUCATION FOR PREHOSPITAL PROFESSIONALS 1 CR (1-0)

Provides the student with core knowledge and skills necessary to provide emergency care to the pediatric patient. *Prerequisite: EMT-Basic OR Program Coordinator approval.* (Contact hours - 15)

### EMS 153 ADVANCED PATIENT ASSESSMENT & HISTORY TAKING 2 CR (2-0)

Teaches the pre-hospital health care provider techniques in assessing the patient – both medical and trauma. Covers history taking, documentation, communication and assessment techniques for the special patient. *Prerequisite: EMS 125 OR Program Coordinator approval.* (Contact hours - 30)

### EMS 154 TRAUMA LIFE SUPPORT 1 CR (1-0)

Prepares the EMS provider to assess and manage trauma patients in the prehospital setting. (Contact hours - 15)

### 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).* *Corequisite: 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 to 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 continuin medical education hours for EMT basics wishing to recertify at the state or national leve.

*Prerequisite: Current Colorado EMT-Basic certification.*

**EMS 203 EMT INTERMEDIATE I 6 CR (3-3.5)**

Course provides preparatory information and is the first part of the EMT Intermediate program. *Prerequisites: Valid EMT-Basic, HEP B vac, Current CPR cards, high school grad or GED, CPT 80, Math.* (Contact hours - 112.5)

**EMS 205 EMT INTERMEDIATE II 6 CR (3-3.5)**

Serves as the second course for EMT Intermediate certification.

*Prerequisite: EMS 203 ("C" or better).* (Contact hours - 112.5).

**EMS 270 CLINICAL: EMS INTERMEDIATE 3 CR (0-3)**

Provides the EMT-I student with the required field experiences as required by the Colorado Department of Health. *Prerequisites: EMS 203-205 ("C" or better).* (Contact hours - 90)

**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 115 TECHNICAL ENGLISH & COMMUNICATION 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, and 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 Guarantee 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 Guarantee Transfer Course.

**ENG 131 TECHNICAL WRITING 3 CR (3-0)**

Develops skills one can apply to a variety of technical documents. Focuses on principles for organizing, writing, and revising clear, readable documents for industry, business, and government. *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, summarize, complex texts and incorporate this information into specific 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 available through Colorado Community College Online (CCOnline).

**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. Includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. Using a holistic approach, students will study how the foundations of natural sciences interconnect with the environment. This course includes laboratory experience. (Contact hours - 75) State Guarantee Transfer Course.

Additional courses available through Colorado Community College Online (CCOnline).

**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 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 an advanced level of horsemanship involving lead changes, turn arounds, and roll backs 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)

## ESTHETICIAN

(All COS, EST and NAT courses are a part of the Cosmetology Program and cannot be taken as independent courses)

**EST 110 INTRODUCTION 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 (clinical) 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 is 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)

**ETHNIC STUDIES****ETH 200 INTRODUCTION TO ETHNIC STUDIES****3 CR (3-0)**

Introduces students to the issues of race and ethnicity. Emphasizes ethnic relations in the United States as it pertains to four major groups: Americans of African, Asian, Latino and Native descent. Explores issues of racial and ethnic identity, racism and discrimination, stereotyping, prejudice, segregation, colonialism, integration and acculturation. (Contact hours - 45) State Guarantee Transfer Course.

**FRENCH****FRE 111 FRENCH LANGUAGE I****5 CR (5-0)**

Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the French language. (Contact hours - 75).

**FRE 112 FRENCH LANGUAGE II****5 CR (5-0)**

Continues French I in the development of functional proficiency in listening, speaking, reading and writing the French language. *Prerequisite: FRE 111 ("C" or better).* (Contact hours - 75)

Additional courses available through Colorado Community College Online (CCOnline).

**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 an 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; 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, and 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 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. (Contact hours - 60)

**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 firesetter, 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. Multiagency coordination systems are discussed, 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, 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 Fireline, 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 Guarantee 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 Guarantee Transfer Course.

**GEO 111 PHYSICAL GEOGRAPHY: LANDFORMS WITH LAB 4 CR (3-2)**

Introduces the principles of landforms as a major aspect of our natural environment. (Contact hours - 75) State Guarantee Transfer Course.

**GEO 112 PHYSICAL GEOGRAPHY: WEATHER & CLIMATE WITH 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 Guarantee 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 available through Colorado Community College Online (CCOnline).

**GEOLOGY****GEY 111 PHYSICAL GEOLOGY 4 CR (3-3)**

Studies the materials of the earth, its structure, surface features and the geologic processes involved in its development. This course includes laboratory experience. (Contact hours - 90) State Guarantee Transfer Course.

**GEY 112 HISTORICAL GEOLOGY 4 CR (3-3)**

Studies the physical and biological development of the earth through the vast span of geologic time. Emphasizes the investigation and interpretation of sedimentary rocks, the record of ancient environment, fossil life forms, and physical events, all within the framework of shifting crustal plates. Course includes a laboratory experience.

*Prerequisite: GEY 111 ("C" or better) OR instructor approval.* (Contact Hours - 90) State Guarantee Transfer Course.

**GEY 175 SPECIAL TOPICS .25-3 CR**

Presents an overview of the special topic including one aspect of the earth and it's history as recorded in rocks and rock formations. May include current changes and impact of historical events and exploration of current topics, issues and activities related to one or more aspects of the named discipline. (Contact Hours - 3.75-45)

Additional courses available through Colorado Community College Online (CCOnline).

**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 Guarantee 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 Guarantee Transfer Course.

**HIS 111 THE WORLD: ANTIQUITY - 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 Guarantee Transfer Course.

**HIS 112 THE WORLD: 1500 - 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 Guarantee 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 Guarantee 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 Guarantee 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 Guarantee Transfer Course.

**HIS 205 WOMEN IN WORLD HISTORY****3 CR (3-0)**

Examines the roles, experiences, and contributions of women in world history and explores ways in which women's history modifies the traditional interpretations of historical events.. (Contact hours - 45) State Guarantee Transfer Course.

**HIS 207 AMERICAN ENVIRONMENT HISTORY****3 CR (3-0)**

Traces and analyzes the relationships between Americans and their natural environments throughout the history of the United States. Environmental history interprets the changing ways diverse people have used and viewed their environments over time. Examines the development of conservation movements and environmental policies in modern America. (Contact hours - 45) State Guarantee 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 Guarantee Transfer Course.

**HIS 215 WOMEN IN U.S. HISTORY****3 CR (3-0)**

Examines women's changing roles in American history from the pre-colonial native population to the present. Emphasizes the nature of women's work and the participation of women in the family, political, religious, and cultural activities and in social reform movements. (Contact hours - 45) State Guarantee Transfer Course.

**HIS 218 HISTORY OF 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, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. (Contact hours - 45) State Guarantee 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 Guarantee 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 Guarantee Transfer Course.

**HIS 243 HISTORY OF MODERN CHINA****3 CR (3-0)**

This course traces the political, ideological, economic, religious, social, and cultural developments of modern China from the Qing dynasty through the political and economic revolutions of the 20th century. (Contact hours - 45) State Guarantee Transfer Course.

**HIS 244 HISTORY OF LATIN AMERICA****3 CR (3-0)**

Focuses on the major political, economic, social, and cultural influences that have shaped Latin America from pre-European conquest to the present. Emphasizes the early history of Latin America but connects it to the present. (Contact hours - 45) State Guarantee Transfer Course.

**HIS 245 U.S. IN THE WORLD****3 CR (3-0)**

Focuses on major themes of United States history in the context of worldwide historical phenomena, including global contacts and exchange, colonial frontiers and international trade, America's influence on the age of revolutions, industrialization and movement of populations, urbanization and rural change, and expansion of state power and rise of social movements. Through readings and discussions on problems in political, social, public and personal history, students will gain an understanding of historical processes and methodology and will learn how to use critical historical analysis in order to achieve a greater perspective on the US's role in world history. (Contact hours - 45) State Guarantee Transfer Course.

**HIS 246 HISTORY OF MEXICO****3 CR (3-0)**

Focuses on the major political, economic, social, and cultural developments of Mexico from Pre-Columbian times to the present. (Contact hours - 45)

**HIS 247 20TH CENTURY WORLD HISTORY****3 CR (3-0)**

Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions and nation-states from 1900 to the present. Emphasizes the interactions of global regions and nation-states. (Contact hours - 45) State Guarantee Transfer Course.



**HIS 260 U.S. FOREIGN RELATIONS HISTORY 3 CR (3-0)**

Provides an overview of the history of United States foreign relations from the colonial era to the present and includes the pertinent political, military, economic, diplomatic, social, religious, ideological and cultural topics. At various points, issues such as race, class, gender, immigration, expansion, and the environment will be covered. This course also focuses on developing, practicing and strengthening the skills historians use while constructing knowledge in the discipline. (Contact hours - 45) State Guarantee 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 available through Colorado Community College Online (CCCOnline).

## 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 101 INTRODUCTION TO COACHING 2 CR (2-0)**

Acquaints the learner with the knowledge, requirements and responsibilities of coaching, including sport philosophy, sport medicine, and sport management. Fulfills requirements for ASEP Leader Level I. (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 110 ANALYSIS & TEACHING OF BASEBALL 2 CR (2-0)**

Focuses on a study of the techniques and strategies of coaching competitive baseball to obtain background and understanding of rules and positions of umpiring baseball. (Contact hours - 30)

**HPE 112 ANALYSIS & TEACHING OF VOLLEYBALL 2 CR (2-0)**

Provides the student with an understanding of teaching and analyzing the correct techniques, skills and basic knowledge to instruct the game of volleyball. (Contact hours - 30)

**HPE 113 ANALYSIS & TEACHING OF BASKETBALL 2 CR (2-0)**

Provides students with an understanding of teaching and analyzing the correct techniques, skills, and basic knowledge to instruct the game of basketball. (Contact hours - 30)

**HPE 114 ANALYSIS & TEACHING OF INDIVIDUAL/ DUAL SPORTS 3 CR (3-0)**

Develops knowledge, skills, analysis of techniques and teaching competencies in the activities of golf, bowling, racquet sports, and billiards. (Contact hours - 45)

**HPE 120 COACHING & OFFICIATING BASEBALL 2 CR (2-0)**

Studies the techniques and strategies of coaching competitive baseball to obtain background and understanding of the rules and positions of umpiring baseball. (Contact hours - 30)

**HPE 122 COACHING & OFFICIATING VOLLEYBALL 2 CR (2-0)**

Includes both the techniques and strategies of coaching competitive volleyball, and the techniques and rules of officiating volleyball. (Contact hours - 30)

**HPE 123 COACHING & OFFICIATING BASKETBALL 2 CR (2-0)**

Presents the techniques and strategies of coaching competitive basketball. Students obtain background and understanding of rules and techniques of officiating basketball. (Contact hours - 30)

**HPE 124 SPORTS OFFICIATING 2 CR (2-0)**

Provides knowledge on basic fundamentals for all officials - how to deal with crowds and knowing the state organizations and their purposes. (Contact hours - 30)

**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 is giving to the history of sport from antiquity to the present, particularly the Olympic Games. (Contact hours - 45)

**HPE 201 SPORTS LAW 2 CR (2-0)**

Explains a coach's legal responsibilities in easy to understand terms and gives practical advice for recognizing and improving standards of care and safety for athletes. Ideas and examples of report forms for specific areas are shared. (Contact hours - 30)

**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 100 INTRODUCTION TO HEALTH 3 CR (3-0)**

Provides an exploratory course for students interested in a health career. Basic health skills such as vital signs and CPR will be included.

**HPR 101 CUSTOMER SERVICE IN HEALTH CARE 2 CR (2-0)**

Introduces students to customer service theory and techniques specifically in the healthcare arena. This course will discuss therapeutic communication, conflict resolution and negotiation, as well as employee/ employer relations. Exploration of diverse populations and cultural sensitivity will be addressed.

**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 103 CPR FOR PROFESSIONALS-RENEWAL .25 CR (.25-0)**

Provides opportunity for currently certified CPR providers to renew certificates. *Prerequisite: Current healthcare provider CPR card.* (Contact hours - 4)

**HPR 104 HEALTH CAREER OPTIONS AND READINESS 1 CR (1-0)**

Discusses current market trends in the medical profession, professional opportunities, continuing education, and professional affiliations. Discussions regarding resumes, portfolios, letters of inquiry, and interviewing techniques, as well as job search information is provided. This course is primarily informational and provides information to the student about aspect of career choices.

**HPR 106 LAW AND ETHICS FOR HEALTH PROFESSIONS 2 CR (2-0)**

Introduces student to the study and application medico-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions.

**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 120 ACLS 1 CR (1-0)**

Presents the required material for ACLS completion. It will cover arrhythmias, medications, therapeutic modalities for life threatening arrhythmias, airway management, and other treatment modalities used in cardiac and respiratory arrest. *Prerequisite: Current basic life support health care provider C certification.* (Contact hours - 15)

**HPR 121 ACLS RECERTIFICATION .5 CR (.5-0)**

Presents the required material for ACLS recertification. It will cover rhythm recognition, cardiac drugs, cardiac monitors, and case based scenarios. *Prerequisite: ACLS completion with current card.* (Contact hours - 7.5)

**HPR 130 PEDIATRIC ADVANCED LIFE SUPPORT 1 CR (1-0)**

Provides students the needed information and skills as required be health care agencies for pediatric emergencies. *Prerequisite: Current CPR card –must include child and infant CPR.* (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 to 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, 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, 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, and neurophysiology and the interaction to produce function. Joint and muscle structure and function with application is a main focus. (Contact hours - 75)

Additional courses available through Colorado Community College Online (CCOnline).

**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 Guarantee Transfer Course.

**HUM 115 WORLD MYTHOLOGY 3 CR (3-0)**

Introduces students to the mythologies of various cultures. Common themes are illustrated and an interdisciplinary approach is used incorporating some of the following: religion, philosophy, art history, theater, literature, music, cultural studies, and history. (Contact hours - 45) State Guarantee 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 Guarantee Transfer Course.

**HUM 122 HUMANITIES: FROM MEDIEVAL TO 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 Guarantee 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 Guarantee 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 available through Colorado Community College Online (CCOnline).

**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. The course integrates the basic components of fitness and wellness in understanding human health in order to achieve well-being. This course offers current information in the health field and provides self-assessments for health risk and wellness behaviors. This includes lifestyle modification, nutrition, weight management, stress management, cardiovascular and cancer risk reduction, exercise and aging, exercise related injury, exercise and the environment, prevention of sexually transmitted diseases, substance abuse (including tobacco, alcohol and other psychoactive drugs), and analysis and interpretation of research publications and web sites in health and wellness. (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 available through Colorado Community College Online (CCCOnline).

## INDUSTRIAL MAINTENANCE

**IMA 100 INTRO TO INDUSTRIAL MAINTENANCE** **3 CR (2-4)**  
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 - 90)

**IMA 120 INDUSTRIAL ROTATING EQUIPMENT** **3 CR (3-0)**  
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 principles 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.* (Contact hours - 45)

**IMA 150 INDUSTRIAL PROBLEM SOLVING METHODS** **2 CR (1-1.5)**  
Provides the student with the methodology and skills to perform a clear, concise analysis of multi-faceted problems associated with complex equipment, 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 AND EIC 101 ("C" or better).* (Contact hours - 37.5)

**IMA 160 BASIC FLUID POWER** **3 CR (1-3)**  
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. *Prerequisite: EIC 101 ("C" or better).* (Contact hours - 60)

## JOURNALISM

**JOU 105 INTRODUCTION TO MASS MEDIA** **3 CR (3-0)**  
Places the mass media in an historical and cultural perspective, considering the validity, integrity and influence of the media in a democracy. (Contact hours - 45) State Guarantee Transfer Course.

**JOU 106 FUNDAMENTALS OF REPORTING** **3 CR (3-0)**  
Introduces newswriting, reporting and interviewing with an emphasis on clarity, accuracy, completeness, 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)

**JOU 121 PHOTOJOURNALISM** **3 CR (3-0)**  
Provides an introductory, hands-on course in black-and-white photography, with an emphasis on photojournalistic techniques, processing and printing. This course includes an investigation of word/pictures relationships in creating photo essays for publications. (Contact hours - 45)

**JOU 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)

**JOU 180 INTERNSHIP** **3-5 CR**  
Provides a structured and guided, individualized research that is organized and tailored around the interests and needs of the individual student who may use journalism skills and experiences acquired during previous coursework. *Prerequisite: instructor approval.* (Contact hours - 40)

**JOU 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)

**JOU 206 INTERMEDIATE NEWSWRITING AND EDITING** **3 CR (3-0)**  
Presents how to gather information as an investigative reporter through research of local, state and federal government publications, how to cover police beat and city hall, how our courts and regulatory agencies function, and how to cover other challenges as the environment, religion, science, medical, public safety and business. (Contact hours - 45)

**JOU 221 NEWSPAPER DESIGN I** **3 CR (3-0)**  
Provides students with experience in newswriting, editing, design, layout and advertising for newspaper production. Students may be required to work on the college newspaper or other news-oriented publications. *Prerequisite: Level placement scores ENG 121.* (Contact hours - 45)

**JOU 222 NEWSPAPER DESIGN II** **3 CR (3-0)**  
Allows students to build their newspaper production experience through work on the college newspaper or other approved news-oriented publications. (Contact hours - 45)

**JOU 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)

**JOU 280 INTERNSHIP 3-5 CR (0-3 to 5)**

Provides a structured and guided, individualized research that is organized and tailored around the interests and needs of the individual student who may use journalism skills and experiences acquired during previous coursework. *Prerequisite: instructor approval.* (Contact hours - 40)

**JOU 285 INDEPENDENT STUDY 1-6 CR (0-0)**

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)

Additional courses available through Colorado Community College Online (CCOnline).

**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 Guarantee 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 201 WORLD LITERATURE TO 1600 3 CR (3-0)**

Examines significant writings in world literature from the ancients through the Renaissance. Emphasizes careful readings and understanding of the works and their cultural backgrounds. (Contact hours - 45) State Guarantee Transfer Course.

**LIT 202 WORLD LITERATURE AFTER 1600 3 CR (3-0)**

Examines significant writings in world literature from the seventeenth century to the present. Emphasizes careful reading and understanding of the works and their cultural backgrounds. (Contact hours - 45) State Guarantee Transfer Course.

**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 Guarantee Transfer Course.

**LIT 211 AMERICAN LITERATURE TO CIVIL WAR 3 CR (3-0)**

Provides an overview of American literature from the Native American through the nineteenth century Romantics. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. (Contact hours - 45) State Guarantee Transfer Course.

**LIT 212 AMERICAN LITERATURE AFTER CIVIL WAR 3 CR (3-0)**

Provides an overview of American literature from the mid-nineteenth century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. (Contact hours - 45) State Guarantee Transfer Course.

**LIT 221 BRITISH LITERATURE TO 1770 3 CR (3-0)**

Provides an overview of British literature from the Anglo-Saxon period through the 17th century. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. (Contact hours - 45) State Guarantee Transfer Course.

**LIT 222 BRITISH LITERATURE AFTER 1770 3 CR (3-0)**

Provides is an overview of British literature from the 18th century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. (Contact hours - 45) State Guarantee Transfer Course.

**LIT 225 INTRODUCTION TO SHAKESPEARE 3 CR (3-0)**

Provides is an overview of British literature from the 18th century to Explores a selection of works by William Shakespeare. It focuses on careful reading and interpretation of the plays and poems, includes pertinent information about Elizabethan England, and examines formal as well as thematic elements of the selected works. (Contact hours - 45) State Guarantee Transfer Course.

**LIT 235 SCIENCE FICTION 3 CR (3-0)**

Examines the techniques and issues of science fiction through a close reading a variety of writers in the genre. *Prerequisite: ENG 121 ("C" or better).* (Contact hours - 45)

**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 259 SURVEY OF AFRICAN AMERICAN LITERATURE 3 CR (3-0)**

Examines African American literature from 1750 to the present, exploring ideas, historical and social contexts, themes, and literary characteristics of works in various genres by major writers. (Contact hours - 45) State Guaranteed Transfer Course.

**LIT 268 CELTIC LITERATURE 3 CR (3-0)**

Exposes the student to Irish literature. The course examines significant writings in Irish literature from the ancients through to the Twenty first century. The course emphasizes the careful reading and understanding of the works of poetry, fiction, and drama, as well as their cultural backgrounds. (Contact hours - 45) State Guaranteed Transfer Course.

**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 available through Colorado Community College Online (CCOnline).

**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 216 SMALL BUSINESS MANAGEMENT** 3 CR (3-0)  
Examines the elements necessary for the successful formation of a new small business. It is also designed to enhance the skills of those already involved in the operation of a small business. The course includes the development of a complete small business plan. (Contact hours - 45) AAS and AGS courses.

**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.

Additional courses available through Colorado Community College Online (CCOnline).

## 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. The course covers the role of selling in the marketing process consumer behavioral consideration in the buying-selling process, and sales techniques. *Prerequisite:* BUS 115 ("C" or better). (Contact hours - 45)

**MAR 160 CUSTOMER SERVICE** 3 CR (3-0)  
Enables students to learn the relationship of self to customers, problem solve and understand the importance of communicating with customers. Specific emphasis is given to managing customer expectations by building customer rapport and creating positive outcomes. (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 and 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 available through Colorado Community College Online (CCOnline).

## 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, percents, measurement, linear relationships, properties of exponents, polynomials, factoring, and math learning strategies. This course prepares students for Math for 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 91 APPLIED QUANTITATIVE LAB** 1 CR (0-1.5)  
Supports skill development for students registered in MAT 103, MAT 107, MAT 108, MAT 109, or MAT 112. Topics covered in the course include those defined in MAT 103/107/108/109/112 and/or any pre-requisite skills needed by the student. Students with Accuplacer scores Elementary Algebra 30-60 or Arithmetic >40, who are advised into MAT 103/107/108/109/112, are required to co-enroll in this course. *Prerequisite:* This course has math placement requirements (see page 139). (Contact hours — 22.5)

**MAT 92 QUANTITATIVE LAB** 1 CR (0-1.5)  
Supports skill development for students registered in MAT 120, MAT 135, MAT 155, or MAT 156. Topics covered in this course include those defined in MAT 120/135/155/156 and/or any pre-requisite skills needed by the student. Students with Accuplacer scores Elementary Algebra 80-84, who are advised into MAT 120/135/155/156, are required to co-enroll in this course. *Prerequisite:* This course has math placement requirements (see page 139). (Contact hours — 22.5)

**MAT 93 ALGEBRA LAB****1 CR (0-1.5)**

Supports skill development for students registered in MAT 121 or MAT 123. Topics covered in this course include those defined in MAT 121/123 and/or any pre-requisite skills needed by the student. Students with Accuplacer scores Elementary Algebra 80-84, who are advised into MAT 121/123, are required to co-enroll in this course. *Prerequisite: This course has math placement requirements (see page 139). Paired with MAT 121.* (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. It is 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)**

Provides a review of general mathematics, introductory algebra and an opportunity to learn systems of measurement and methods of solving problems related to drug dosage and intravenous fluid administration. It is designed for students in the health disciplines. Topics may include algebra, graphs, measurement and conversion between various systems of measurement. *Prerequisite: Successful completion of MAT 50, 90, or 96 ("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 30, 45, or 50 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 45)

**MAT 112 FINANCIAL MATHEMATICS****3 CR (3-0)**

Covers topics including pricing, taxes, insurance, interest, annuities, amortization, investments using financial calculators and spreadsheets. *Prerequisite: Successful completion of MAT 45, 50, or 60 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 45)

**MAT 120 MATHEMATICS FOR THE LIBERAL ARTS****4 CR (4-0)**

Develops mathematical and problem-solving skills. Appropriate technological skills are included. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. Additional content will include one topic in geometry, numeration systems, decision theory, or management science. *Prerequisite: Successful completion of MAT 50, 90, 96, or 99 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 60) State Guarantee Transfer Course. AA & AGS Degrees only.

**MAT 121 COLLEGE ALGEBRA****4 CR (4-0)**

Includes a brief review of intermediate algebra, equations, and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, selection of topics from among graphing of the conic sections, introduction to sequences and series permutations and combinations, the binomial theorem and theory of equations. *Prerequisite: Successful completion of MAT 55, 96, or 99 ("C" or higher) OR appropriate placement score (see page 139).* (Contact hours - 60) State Guarantee Transfer Course.

**MAT 122 COLLEGE TRIGONOMETRY****3 CR (3-0)**

Covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence. *Prerequisite: Successful completion of MAT 121 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 45) State Guarantee Transfer Course.

**MAT 123 FINITE MATHEMATICS****4 CR (4-0)**

Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors. *Prerequisite: Successful completion of MAT 55, 96, or 99 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 60) State Guarantee Transfer Course. AA & AGS Degrees only.

**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 Guarantee 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, 90, 96, or 99 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 45) State Guarantee Transfer Course. AA & AGS Degrees only.

**MAT 155 INTEGRATED MATH I****3 CR (3-0)**

Engages students in the concepts of school mathematics, the course will include the recognition of numerical and geometric patterns and their application to a variety of mathematical situations; mathematical problem-solving, reasoning, critical thinking, and communication; algebraic thinking, representation, analysis, manipulation, generalizations and extensions. *Prerequisite: Successful completion of MAT 90, 96 or 99 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 45)

**MAT 156 INTEGRATED MATH II****3 CR (3-0)**

Further MAT 155 concepts, the course will include fundamentals of probability, statistics, and Euclidean geometry. Mathematical problem-solving, reasoning, critical thinking and communication will continue to be an integral part of this sequence. *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, trig 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 Guarantee Transfer Course.

**MAT 202 CALCULUS II 5 CR (5-0)**

Continuation of single variable calculus which will include techniques of integration, polar coordinates, analytic geometry, improper integrals, and infinite series. *Prerequisite: MAT 201 ("C" or better) OR instructor approval.* (Contact hours - 75) State Guarantee Transfer Course.

**MAT 203 CALCULUS III 4 CR (4-0)**

Completes the traditional subject matter of the Calculus. Topics include vectors, vector-valued functions, and multivariable calculus including partial derivatives, multiple integrals, line integrals and application. *Prerequisite: MAT 202 ("C" or better).* (Contact hours - 60) State Guarantee Transfer Course.

**MAT 261 DIFFERENTIAL EQUATIONS WITH ENGINEERING APPLICATION:MA1 4 CR (4-0)**

Introduces ordinary differential equations. The content of this course includes all the topics of MAT 265 Differential Equations with an additional emphasis on applications and problem solving. A graphing calculator is required for this course. *Prerequisite: MAT 203 ("C" or better).* (Contact hours - 60) State Guarantee Transfer Course.

**MAT 266 DIFFERENTIAL EQUATIONS WITH LINEAR ALGEBRA 4 CR (4-0)**

Covers first and second order differential equations, series solutions, Laplace transforms, linear algebra, eigenvalues, first order systems of equations, and numerical techniques are covered. *Prerequisite: MAT 202 ("C" or better). Corequisite: MAT 203.* (Contact hours - 60)

**MAT 275 SPECIAL TOPICS 1-12 CR**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**MAT 285 INDEPENDENT STUDY 1-3 CR**

Provides an opportunity for the highly-motivated student to engage in intensive study and research on a specified topic under direction of a faculty member. *Prerequisites: Permission of instructor.*

Additional courses available through Colorado Community College Online (CCOnline).

**MUTLMEDIA GRAPHIC DESIGN****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 116 TYPOGRAPHY I 3 CR (3-0)**

Introduces the history and concepts of typography as applied to graphic communications. Explores appropriate use of typography in a variety of design applications, emphasizing the basic design principles of typographic compositions and typesetting. Covers type recognition and typographic terms. (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 143 MOTION GRAPHIC DESIGN I: SOFTWARE 3 CR (3-0)**

Stresses creation of animation and dynamic interactive media for web and multimedia applications. Students will learn how to animate objects, create symbols, and assemble motion tweens. (Contact hours - 45)

**MGD 175 CODE WEB DESIGN 3 CR (3-0)**

Provides students with a vehicle to pursue in depth exploration of special topics of interest. (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)

<p><b>MUS 112 EAR TRAINING/SIGHT-SIGNING I LAB</b> 1 CR (1-0) Presents exercises in sight-singing with melodic and rhythmic dictation. <i>Prerequisite: instructor approval. Corequisite: MUS 110</i> (Contact hours - 15)</p>	<p><b>MUS 143 PRIVATE INSTRUCTION III</b> 1-2 CR (0-4) 1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. First year, third term. <i>Prerequisite: instructor approval.</i> (Contact hours - 7.5 - 15)</p>
<p><b>MUS 113 EAR TRAINING/SIGHT-SIGNING II LAB</b> 1 CR (1-0) Presents exercises in sight-singing with melodic and rhythmic dictation. <i>Prerequisite: MUS 112 ("C" or better). Corequisite: MUS 111</i> (Contact hours - 15)</p>	<p><b>MUS 144 PRIVATE INSTRUCTION IV</b> 1-2 CR (0-4) 1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. First year, fourth term. May be repeated for credit more than once per individual institution policy. <i>Prerequisite: instructor approval.</i> (Contact hours - 7.5 - 15)</p>
<p><b>MUS 120 MUSIC APPRECIATION</b> 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 Guarantee Transfer Course.</p>	<p><b>MUS 151 ENSEMBLE I</b> 1 CR (0-3) First year, first term. Rehearses and performs various types of musical literature. <i>Prerequisite: instructor approval.</i> (Contact hours - 45)</p>
<p><b>MUS 121 MUSIC HISTORY: MEDIEVAL TO CLASSICAL</b> 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 Guarantee Transfer Course.</p>	<p><b>MUS 152 ENSEMBLE II</b> 1 CR (0-3) Rehearses and performs various types of musical literature. First year, second term. <i>Prerequisite: instructor approval.</i> (Contact hours - 45)</p>
<p><b>MUS 122 MUSIC HISTORY: ROMANTIC TO PRESENT</b> 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.</p>	<p><b>MUS 153 ENSEMBLE III</b> 1 CR (0-3) Rehearses and performs various types of musical literature. First year, third term. <i>Prerequisite: instructor approval.</i> (Contact hours - 45)</p>
<p><b>MUS 123 STUDY OF WORLD MUSIC</b> 3 CR (3-0) Provides an overview of non-Western music from around the world; 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 Guarantee Transfer Course.</p>	<p><b>MUS 154 ENSEMBLE IV</b> 1 CR (0-3) Rehearses and performs various types of musical literature. First year, fourth term. <i>Prerequisite: instructor approval.</i> (Contact hours - 45)</p>
<p><b>MUS 125 HISTORY OF JAZZ</b> 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 Guarantee Transfer Course.</p>	<p><b>MUS 161 MUSIC TECHNOLOGY I</b> 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)</p>
<p><b>MUS 127 MUSIC IN FILM</b> 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)</p>	<p><b>MUS 163 MUSIC AUDIO PRODUCTION I</b> 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)</p>
<p><b>MUS 131 MUSIC CLASS I: PIANO</b> 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)</p>	<p><b>MUS 164 MUSIC AUDIO PRODUCTION II</b> 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)</p>
<p><b>MUS 141 PRIVATE INSTRUCTION I</b> 1-2 CR (0-4) 1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. First year, first term. <i>Prerequisite: instructor approval.</i> (Contact hours - 7.5 - 15)</p>	<p><b>MUS 167 MUSIC BUSINESS I</b> 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)</p>
<p><b>MUS 142 PRIVATE INSTRUCTION II</b> 1-2 CR (0-4) 1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. First year, second term. <i>Prerequisite: instructor approval.</i> (Contact hours - 7.5 - 15)</p>	<p><b>MUS 168 AUDIO: POST PRODUCTION I</b> 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)</p>



<b>MUS 175 SPECIAL TOPICS</b>	<b>1-6 CR</b>
Provides students with a vehicle to pursue in depth exploration of special topics of interest. <i>Prerequisite: instructor approval.</i>	
<b>MUS 185 INDEPENDENT STUDY</b>	<b>1-6 CR</b>
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor. <i>Prerequisite: instructor approval.</i>	
<b>MUS 241 PRIVATE INSTRUCTION I</b>	<b>2 CR (0-4)</b>
1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. Second year, first term. <i>Prerequisites: Class instruction OR instructor approval.</i> (Contact Hours - 7.5-15)	
<b>MUS 242 PRIVATE INSTRUCTION II</b>	<b>2 CR (0-4)</b>
1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. Second year, second term. <i>Prerequisites: Class instruction or instructor approval.</i> (Contact Hours - 7.5-15)	
<b>MUS 243 PRIVATE INSTRUCTION III</b>	<b>2 CR (0-4)</b>
1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. Second year, third term. <i>Prerequisites: Class instruction or instructor approval.</i> (Contact Hours - 7.5-15)	
<b>MUS 244 PRIVATE INSTRUCTION IV</b>	<b>2 CR (0-4)</b>
1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. Second year, fourth term. May be repeated for credit more than once per individual institution policy. <i>Prerequisites: Class instruction or instructor approval.</i> (Contact Hours - 7.5-15)	
<b>MUS 251 ENSEMBLE I</b>	<b>1 CR (0-3)</b>
Rehearses and performs various types of musical literature. Second year, first term. <i>Prerequisite: instructor approval.</i> (Contact Hours - 30)	
<b>MUS 252 ENSEMBLE II</b>	<b>1 CR (0-3)</b>
Rehearses and performs various types of musical literature. Second year, second term. <i>Prerequisite: instructor approval.</i> (Contact Hours - 30)	
<b>MUS 253 ENSEMBLE III</b>	<b>1 CR (0-3)</b>
Rehearses and performs various types of musical literature. Second year, third term. <i>Prerequisite: instructor approval.</i> (Contact Hours - 30)	
<b>MUS 254 ENSEMBLE IV</b>	<b>1 CR (0-3)</b>
Rehearses and performs various types of musical literature. Second year, fourth term. <i>Prerequisite: instructor approval.</i> (Contact Hours - 30)	
<b>MUS 265 LIVE AUDIO RECORDING</b>	<b>3 CR (3-0)</b>
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 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 available through Colorado Community College Online (CCOnline).

## 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 done 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 (clinical) setting, using models or customer service. Proper sanitation and sterilization as it pertains to all aspect of manicures, pedicures and nail art is taught. *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 (clinical) 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 indepth 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 170 NURSE ASSISTANT 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

### 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)

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 available through Colorado Community College Online (CCCOOnline).

## 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)

*THIS COURSE IS ONLY REQUIRED TO THOSE NEW ADMITS SECOND YEAR.*

**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 hrs; 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 206 ADVANCED CONCEPTS OF MEDICAL-SURGICAL NURSING I 6.5 CR (3-0.5-3)**

NUR 206 builds on NUR106 focusing on advanced concepts of nursing applied to care of patients with high acuity medical/surgical conditions. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in a variety of healthcare settings. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings. *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 hrs; Lab: .5 cr/22.5 contact hrs; Clinical: 3 cr/135 contact hrs.)

**NUR 211 PSYCHIATRIC 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 hrs, 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 ADVANCED CONCEPTS MEDICAL - SURGICAL 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 122 STEP AEROBICS** **1 CR (0-2)**  
Introduces basic step aerobics and exercise techniques to improve physical fitness. Emphasizes the basic principles of step aerobics including the effects upon the cardio-respiratory system and skeletal muscles, various step patterns and choreography. (Contact hours - 30)
- PED 123 WATER AEROBICS** **1 CR (0-2)**  
Offers water exercise to develop physical fitness. Includes instruction in a variety of water exercises and vigorous activities to develop cardiovascular and muscular endurance, flexibility and the promotion of body composition management. (Contact Hours - 30)
- PED 124 SWIM FITNESS** **1 CR (0-2)**  
Enables the student to perfect stroke mechanics to swim with more ease, efficiency, power, and smoothness over greater distances. This course may utilize the competitive strokes, starts, and turns, and provide the 'whys' as well as the 'hows' of swim fitness so students can plan training programs to meet their changing needs. (Contact hours - 30)
- PED 126 CARDIO KICKBOXING AEROBIC I** **1 CR (0-2)**  
Introduces aerobic kickboxing as an innovative new interval training aerobics workout that burns fat and increases cardio respiratory endurance. This high intensity course will focus on basic kickboxing moves and technique through hi-low aerobics choreography and target striking. The course will also include floor work to focus on toning and flexibility. (Contact hours - 30)

- PED 127 CARDIO KICKBOXING AEROBIC II** **1 CR (0-2)**  
Involves more intermediate skills and a better understanding of body positioning and form in a natural progression from Aerobic Kickboxing I. More focus will be placed on proper technique and overall improvement. Focus is placed on core strength and improved flexibility. (Contact hours - 30)
- PED 128 INDOOR STATIONARY GROUP CYCLING** **1 CR (0-2)**  
Focuses on improving cardiovascular fitness, burning calories and enhancing muscular endurance. Designed specifically to enhance aerobic work capacity and improve pedalling skills. Each exercise session is choreographed to music and includes a complete workout with a warm-up, endurance and cool-down component. (Contact hours - 30)
- PED 129 ZUMBA** **1 CR (0-2)**  
Zumba is a compilation of high energy, motivating music with unique moves and choreography combinations. Zumba fuses Latin and International music and dance themes to create a dynamic, exciting, effective fitness system. The routines feature aerobic/fitness interval training with a combination of fast and slow rhythms that tone and sculpt the body. Zumba utilizes the principles of fitness interval training and resistance training to maximize caloric output, fat burning and total body toning. It is a mixture of body sculpting movements with easy to follow dance steps. (Contact hours - 30)
- 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 141 PILATES MATWORK I** **1 CR (0-2)**  
Focuses on Pilates matwork to increase core strength, overall muscle tone and flexibility with focused and precise floor work techniques. A physical education class built upon the philosophies and exercises of Josef Pilates.
- 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.
- 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 202 GOLF I** **1 CR (0-2)**  
Introduces a basic course in golf designed for those who have had little or no formal instruction or for those with some experience who are interested in improving some aspect of their game. Includes driving range, putting green, and on-course play. (Contact hours - 30)
- PED 203 GOLF II** **1 CR (0-2)**  
Covers skills designed for individuals with an advanced level of golfing skills who are interested in improving their game. Driving range, putting green and on course instruction and play will be included. Use of woods, irons, wedges and putting will be stressed. All instruction will be by certified golf instructors. *Prerequisite: PED 100 or instructor approval.* (Contact hours - 30)

**PED 206 RACQUETBALL I** 1 CR (0-2)  
Introduces and improves the skill level in racquetball. Emphasizes teaching the student the elements of racquetball including rules, stroke technique, scoring, serving, the various shots, and offensive and defensive strategies. (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 230 VOLLEYBALL I** 1 CR (0-2)  
Introduces and improves student skill level in volleyball. The primary emphasis is on teaching the student the elements of volleyball including rules, offensive and defensive play, passing, serving, setting, attacking, team play and game strategies. (Contact hours - 30)

**PED 231 VOLLEYBALL II** 1 CR (0-2)  
Introduces and improves student's advanced skills in volleyball. The primary emphasis is on teaching students quick offensives and advanced defensive systems in order to play volleyball at a competitive level. (Contact hours - 30)

**PED 232 BASEBALL** 1 CR (0-2)  
Assesses the student's skill level in baseball. Emphasizes skill testing and game participation. (Contact hours - 30)

**PED 233 SOFTBALL** 1 CR (0-2)  
Introduces and improves skill level in softball. Emphasizes the elements of softball including rules of play, variations of play, equipment, skill technique, and offensive and defensive play and strategies. (Contact hours - 30)

**PED 234 BASKETBALL** 1 CR (0-2)  
Introduces basketball and focuses on improving student skill level. Emphasizes teaching the student the elements of basketball rules, offensive and defensive footwork, shooting, passing, dribbling, rebounding, team play, and game strategies. (Contact hours - 30)

**PED 235 SOCCER** 1 CR (0-2)  
Gives the student the opportunity to gain knowledge and skills in the subject of soccer, including history, governing organizations, laws of the game, skills techniques, offensive and defensive tactics and conditioning. (Contact hours - 30)

**PED 237 VARSITY SPORTS** 1 CR (0-5)  
**GOLF**  
**VOLLEYBALL**  
**BASKETBALL - MEN**  
**BASKETBALL - WOMEN**  
**BASEBALL**  
**SOCCER - MEN/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 human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future, and religion.

*Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Corequisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guarantee 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. Theories designed to justify ethical judgments are applied to a selection of contemporary personal and social issues. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 140). Corequisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guarantee Transfer Course.

**PHI 113 LOGIC** 3 CR (3-0)  
Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking. Emphasizes the development of decision-making and problem-solving. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Corequisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guarantee Transfer Course.

**PHI 114 COMPARATIVE RELIGION** 3 CR (3-0)  
Introduces students to the similarities and differences among concepts predominant in the major world religions, comparing sociological, philosophical, and phenomenological similarities between major world faiths. It is designed to transfer to any four-year college philosophy, religious studies or humanities department. *Prerequisite: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Corequisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guarantee 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). Corequisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guarantee 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). Corequisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guarantee 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, 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 examination of the fundamental concepts, ideas, and implications of religion. Includes the nature of God, the varieties of religious experience, argument concerning God's existence, the Problem of Evil, faith and reason, religion and human destiny, and the connection between religion and ethics. (Contact hours - 45) State Guarantee Transfer Course.

**PHI 218 ENVIRONMENTAL ETHICS****3 CR (3-0)**

Critically analyzes theories of value of the natural world. Topics include the relation between scientific and moral principles; theories of the moral worth of persons, animals, plants and other natural objects; historical, religious and cultural influences on conceptions of nature; alternative accounts of human relationships and responsibilities to nature, including deep ecology and eco-feminism; and the connection between moral and political values and economic policies. (Contact hours - 45) State Guarantee 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 and life after bodily death, the epistemological assessment of arguments for the soul and life after death, the ethical justifications taken on positions such as rational suicide and physician assisted suicide, as well as a focus on philosophy's existentialist contribution to questions about the meaning of life and the meaning of death. (Contact hours - 45) State Guaranteed Transfer Course.

Additional courses available through Colorado Community College Online (CCOnline).

**PHYSICS****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 Guarantee Transfer Course.

**PHY 111 PHYSICS: ALGEBRA-BASED I WITH LAB****5 CR (4-2)**

Enables the student to explore the truth about physical reality through reasoning, mathematics and experimentation. Examines kinematics, force, circular motion, energy, momentum, torque, rotational dynamics, simple harmonic motion, temperature, heat and thermodynamics. The concepts and theories presented are explored through demonstrations and hands-on experiments. It is a general physics course that is recommended for all of the health sciences and all other interested students. Students entering engineering or one of the advance sciences should register for PHY 211. *Prerequisite: MAT 121 OR MAT 122 OR MAT 166 recommended ("C" or better).* (Contact hours - 90) State Guarantee Transfer Course.

**PHY 112 PHYSICS ALGEBRA-BASED II WITH LAB****5 CR (4-2)**

Expands upon PHY 111 and covers sound waves, electric fields, electric circuits, magnetic fields, optics, and modern physics. Explores the concepts and theories presented in class through demonstrations and hands-on experiments. *Prerequisite: PHY 111 ("C" or better).* (Contact hours - 90) State Guarantee Transfer Course.

**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 I WITH LAB****5 CR (4-2)**

Enables the student to examine the truth about physical reality through reasoning, mathematics and experimentation. Covers kinematics, force, gravity, energy, momentum, torque, rotational dynamics, fluids and waves. The concepts and theories presented in class are explored through demonstrations and hands-on experiments. This first semester calculus-based physics course is recommended for students entering engineering or one of the advance sciences. *Prerequisites: MAT 201 ("C" or better).* (Contact hours - 90) State Guarantee Transfer Course.

**PHY 212 PHYSICS: CALCULUS-BASED II WITH 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 Guarantee 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 available through Colorado Community College Online (CCOnline).

**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, and 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 Guarantee 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 nonstate 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) State Guarantee Transfer Course.

Additional courses available through Colorado Community College Online (CCOnline).

## PRODUCTION AGRICULTURE

(See Agriculture-Production)

## 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 1399). Corequisite: CCR 94 AND ENG 121. (Contact hours - 45) State Guarantee Transfer Course.*

### PSY 102 GENERAL PSYCHOLOGY II 3 CR (3-0)

Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, and social psychology.

*Prerequisites: Successful completion of REA 90 or CCR 92 ("C" or better) OR appropriate placement score (see page 139). Corequisite: 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 work, courtship, family life, and sexual behavior throughout the life span. (Contact hours - 45) State Guarantee Transfer Course.

### PSY 207 INTRODUCTION TO FORENSIC PSYCHOLOGY 3 CR (3-0)

Introduction to Forensic Psychology is course 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 Guarantee Transfer Course.

### PSY 226 SOCIAL PSYCHOLOGY 3 CR (3-0)

Focuses on the behavior of humans in social settings including attitudes, aggression, conformity, cooperation and competition, prejudice, and interpersonal attraction. *Prerequisites: 3 hrs General PSY, 3 hrs 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 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 140). Corequisite: 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)

Focuses on growth and development of the individual from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors. *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 PSYCHOLOGY OF PERSONALITY: GT-SS3 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 available through Colorado Community College Online (CCOnline).

## RANGE MANAGEMENT

### RAM 205 PRINCIPLES OF RANGE MANAGEMENT 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 112 SPEED READING 2 CR (2-0)

This course is designed to improve reading comprehension and speed of reading for students who want to enhance skills for success in college or career environments. *Prerequisite: Successful completion of REA 90 ("C" or better) OR appropriate placement score (see page 139).* (Contact hours - 30)

### 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, and 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, 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 RECREATION 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 155 INTEGRATED SCIENCE I 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. *Prerequisite: MAT 50 ("C" or better).* (Contact Hours - 75) State Guarantee Transfer Course.

### SCI 156 INTEGRATED SCIENCE II 4 CR (3-2)

Examines earth and biological systems, living and non-living environments, through the applications and refinement of fundamental energy and matter concepts. *Prerequisite: MAT 50 ("C" or better).* (Contact hours - 75) State Guarantee Transfer Course.

Additional courses available through Colorado Community College Online (CCCOonline).

## 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).* *Corequisite: CCR 94 AND ENG 121.* (Contact hours - 45) State Guarantee 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).* *Corequisite: 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 205 SOCIOLOGY OF FAMILY DYNAMICS 3 CR (3-0)

Develops an understanding of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations. The stability and diversity of the family will be explored, along with current trends and some alternative life styles. (Contact hours - 45) State Guarantee Transfer Course.

### SOC 207 ENVIRONMENTAL SOCIOLOGY 3 CR (3-0)

Examination of humans and the environment from an ecological perspective. Focuses on industrial and economic growth versus sustainability, natural resources development and management, environmental values and social movements, and comparative perspectives on people's relationship to the environment. Review of the "Green" movement and other environmental movements and their impacts upon social dynamics, the environment, and the evolution of social movements. (Contact hours - 45) State Guarantee Transfer Course.

### SOC 215 CONTEMPORARY SOCIAL PROBLEMS 3 CR (3-0)

Explores current social issues that result in societal problems. It focuses on such issues as civil liberties, gender discrimination, substance abuse, crime, poverty, and social change. (Contact hours - 45) State Guarantee Transfer Course.



**SOC 216 SOCIOLOGY OF GENDER** **3 CR (3-0)**  
Gives students the theoretical and factual background necessary to understand the phenomenon of gender stratification in American and other cultures. Students will be exposed to a history of gender stratification in human societies, theoretical explanations for this and insights into the consequences of gender differentiation in our world today. (Contact hours - 45) State Guarantee Transfer Course.

**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 220 SOCIOLOGY OF RELIGION** **3 CR (3-0)**  
Provides an introduction to the sociology of religion, including a comparative and critical examination of world religions, by focusing on sociological interpretation and explanation of the role of religion in human culture. The interaction between society and religion is thus examined as are a wide variety of religious beliefs and practices. (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 Guarantee Transfer Course.

**SOC 237 SOCIOLOGY OF DEATH & DYING** **3 CR (3-0)**  
Provides an opportunity to familiarize students and professionals with the needs and issues surrounding dying and death. This course will provide sociological, psychological, religious, historical and anthropological perspectives for interpreting contemporary American customs dealing with dying, death and bereavement. We will examine the professions associated with death and dying, such as hospice, funeral and crematory institutions, and medical care. (Contact hours - 45) State Guarantee 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 available through Colorado Community College Online (CCOnline).

## 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 115 SPANISH FOR THE PROFESSIONAL I** **3 CR (3-0)**  
Designed as an introduction to a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and others. *Prerequisite: College-level reading.* (Contact hours - 45)

**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 Guarantee 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 Guarantee Transfer Course.

**SPA 215 SPANISH FOR THE PROFESSIONAL II** **3 CR (3-0)**  
Continues SPA 115 in the development of a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and others. *Prerequisite: SPA 115 ("C" or better) OR Equivalent Placement Scores.* (Contact hours - 45)

**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: Permission of the instructor.*

Additional courses available through Colorado Community College Online (CCOnline).

## 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 Guarantee Transfer Course.

**THE 108 THEATER 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 Guarantee 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 115 STAGE MOVEMENT FOR ACTORS** **3 CR (3-0)**  
Introduces the vocabulary of human movement, techniques of physical training, and anatomy and kinesiology for the actor. The course includes forms of basic dance and the coordination of movement with vocal delivery. (Contact hours - 45)

**THE 116 TECHNICAL THEATRE** **3 CR (3-0)**  
Introduces hands-on methods of constructing and painting scenery and properties and operating stage lighting. Students also learn the proper procedures of using shop equipment and serving on stage crews. (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 204 VOICE AND ARTICULATION** **2 CR (2-0)**  
Emphasizes vocal development including diction, enunciation, projection, dialects, and vocal interpretation of written materials. Students strive to eliminate regionalisms and tonal faults, e.g., nasality, stridency, sibilance, breathiness. (Contact hours - 30)

**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 Guarantee 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 Guarantee 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 Guarantee 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 and guided, individualized study that is organized and tailored around the interests and needs of the individual student.

## WELDING

**WEL 100 SAFETY FOR WELDERS** **1 CR (1-0)**  
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 - 15)

**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. *Corequisite: WEL 100 or AME 151.* (Contact hours - 60)

**WEL 110 ADVANCED SHIELDED METAL ARC I** **4 CR (1-4.5)**  
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. *Corequisite: WEL 100 or AME 151.* (Contact hours - 82.5)

**WEL 113 OXYFUEL AND PLASMA CUTTING** **2 CR (1-1.5)**  
Outlines the skills needed to set up equipment and perform cutting and gouging operations utilizing the oxyacetylene and plasma arc cutting processes. *Corequisite: WEL 100 or AME 151.* (Contact hours - 37.5)

**WEL 124 INTRO-GAS TUNGSTEN ARC WELDING** **4 CR (1.5-3.75)**  
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 weldability of metals, structural joints, and safety in the welding industry. *Corequisite: WEL 100 or AME 151.* (Contact hours - 78.75)

**WEL 140 WELDING PRACTICES & PROCEDURES** **1.5 CR (.5-1.5)**  
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 - 30) *"Open to Any Student"*

**WEL 175 INTRO TO WELDING INDUSTRY 3 CR (3-0)**

Provides students with a vehicle to pursue in depth exploration of special topics of interest (Contact hours - 45)

**WEL 201 GAS METAL ARC WELDING I 4 CR (1.5-3.75)**

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. topics of interest.

*Corequisite: WEL 100 or AME 151.* (Contact hours - 78.75)

**WEL 203 FLUX CORED ARC WELDING I 4 CR (1.5-3.75)**

Covers safety inspections, minor repairs, operating parameters, operation of FCAW equipment utilizing self shielded wire, and principles of joint design, preparation, and material selection to welding operations.

*Corequisite: WEL 100 or AME 151.* (Contact hours - 78.75)

**WEL 230 PIPE WELDING I 4 CR (1.5-3.75)**

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. *Corequisite: WEL 100 or AME 151.* (Contact hours - 78.75)

**WEL 231 PIPE WELDING II 4 CR (1.5-3.75)**

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. *Corequisite: WEL 100 or AME 151.* (Contact hours - 78.75)

**WEL 251 DESIGN, LAYOUT, & FABRICATION 4 CR (1-4.5)**

Develops advanced welding and associated skills in the use of drawings and blueprints in planning. This course includes designing and layout projects.

*Corequisite: WEL 100 or AME 151.* (Contact hours - 82.5)

**WEL 263 APPLIED METAL PROPERTIES 4 CR (1-4.5)**

Introduces the study of metal properties, hardness testing, heat treatment, cold working microscopic examination and application of common commercial alloys in industry. *Corequisite: WEL 100 or AME 151.*

(Contact hours - 82.5)

## WOMEN'S STUDIES

**WST 200 INTRODUCTION TO WOMEN'S STUDIES 3 CR (3-0)**

Examines the nature and function of women in society from an interdisciplinary perspective, focusing on the similarity and diversity of women's experience over time and across cultures. The course will examine topics such as sex role, socialization, political, and philosophical perspectives on women's issues, and women's accomplishments in history, art, literature, science, health issues and the family. Students will gain an awareness of the limitations of traditional scholarship on women, and gain a means of practical application of the new scholarship on women's roles and nature. (Contact Hours - 45) State Guarantee Transfer Course.

**WST 240 GODDESSES AND WOMEN IN THE ANCIENT WORLD 3 CR (3-0)**

Surveys gender socialization and the roles, challenges, contributions, and images of women in the development of cultures. Through a study of arts, literature, music, politics, religion, philosophy, laws, and social standards students are introduced to the history of ideas that have defined women's place in societies. It examines goddesses, rituals, and ceremonies and how the image of the Feminine Divine changed from matriarchal cultures through the establishment of patriarchal cultures. These topics will be viewed through diverse cultures, including European and non-European, from the Ancient World through the Middle Ages.

(Contact hours - 45) State Guaranteed Transfer Course.

## 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, 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.

*Prerequisite: EIC 101 ("A" or better).* (Contact hours - 45)

**WTG 110 WIND TURBINE GENERATOR POWER DISTRIBUTION & CONTROL SYSTEMS 3 CR (1-3)**

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. *Prerequisite: EIC 101 ("A" or better).* (Contact hours - 60)

**WTG 175 SPECIAL TOPICS 1-12 CR**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**WTG 220 WIND TURBINE GENERATOR TROUBLE-SHOOTING & REPAIR 4 CR (1-4.5)**

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: EIC 101 ("A" or better).* (Contact hours - 82.5)

**WTG 230 WIND TURBINE SYSTEMS 3 CR (1-3)**

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, WTG 110 ("C" or better).* (Contact hours - 60)

**WTG 275 SPECIAL TOPICS 1-12 CR**

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

**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. (Internship hours - 240) *Prerequisite: EIC 101 ("A" or better).*

**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. *Prerequisite: EIC 101 ("A" or better).* (Contact hours - 30)

College Level Class	ACT	SAT	Accuplacer	CCPT*	Other
	Placement	Placement	Placement	Placement	Comments
AAA 75			Arithmetic ≥40 or El. Alg. 30-44	LADI 0-66	Paired with MAT 50
AAA 76			Arithmetic ≥45 or El. Alg. 45-59	AL PADI ≥ 80	Paired with MAT 55
AAA 77			Arithmetic ≥40 or El. Alg. 30-44	QL PADI 0-79	Paired with MAT 102
AAA 78/79					Paired with MAT 107
AAA 95			El. Algebra 80-84	N/A	Paired with MAT 121
ASC 100			Read Comp ≥62	Rdg ≥ 101 & Essay 3 or Rdg ≥ 89 & Essay 4 or Rdg 50-95 & Essay 5 or Rdg 50-79 & Essay 6	
AST 101 / 102	Reading 17	English 470* (old 430)	Read Comp ≥80	Reading ≥ 96 & Essay 5 or Reading ≥ 80 & Essay 6	
BIO 111					
BUS 115			Read Comp ≥62	Rdg ≥ 101 & Essay 3 or Rdg ≥ 89 & Essay 4 or Rdg 50-95 & Essay 5 or Rdg 50-79 & Essay 6	
BUS 226	Math 21	Math 550	Elem. Algebra ≥61	BAAD ≥ 107 or QL PADI ≥80 or any IADI score	
CCR 091			Sentence Skills 0-49 &/or Read Comp 0-39	Reading ≥ 50 & Essay 1 or Reading 50 -75 & Essay 2	Paired with CCR 92
CCR 092			Sentence Skills 50-69 &/or Read Comp 40-61	Reading ≥ 76 & Essay 2 or Reading 50-100 & Essay 3 or Reading 50-88 & Essay 4	
CCR 93			Sentence Skills 70-94 &/or Read Comp 62-79	Rdg ≥ 101 & Essay 3 or Rdg ≥ 89 & Essay 4 or Rdg 50-95 & Essay 5 or Rdg 50-79 & Essay 6	Paired with GT course
CCR 94					Paired with ENG 121
EMS 115	Reading 17	English 470* (old 430)	Read Comp ≥80	Reading ≥ 96 & Essay 5 or Reading ≥ 80 & Essay 6	
ENG 115			Sentence Skills 70-94 &/or Read Comp 62-79	Rdg ≥ 101 & Essay 3 or Rdg ≥ 89 & Essay 4 or Rdg 50-95 & Essay 5 or Rdg 50-79 & Essay 6	
ENG 131					
ENG 121	English 18	English 470* (old 430)	Sentence Skills ≥95	Reading ≥ 96 & Essay 5 or Reading ≥ 80 & Essay 6	
MAT 50			Elem. Algebra 45-59	LADI 67 OR PADI 0-79	
MAT 55	Math 19		Elem. Algebra 60-84	AL IADI <60	
MAT 91			Arithmetic ≥40 or El. Alg. 30-60	N/A	Paired with MAT 102/103/107/112
MAT 92			Elem. Algebra 80-84	N/A	Paired with MAT 120/135/155
MAT 93	Math 19-22		Elem. Algebra 80-84	N/A	Paired with MAT 121
MAT 102	Math 19	Math 500	Elem. Algebra ≥45	BAAD ≥ 107 or QL PADI ≥80 or any IADI score	
MAT 103					
MAT 107					
MAT 112					
MAT 120	Math 19	Math 500	Elem. Algebra ≥61	BAAD ≥ 107 or QL PADI ≥80 or any IADI score	
MAT 121/123	Math 23	Math 570	Elem. Algebra ≥ 85	AL IADI ≥60 or 0-28 TCDI	
MAT 122	Math 24	Math 590	CLM 63-102	TCDI 29 - 81	
MAT 125					
MAT 135	Math 21	Math 550	Elem. Algebra ≥61	BAAD ≥ 107 or QL PADI ≥80 or any IADI score	
MAT 155/56	Math 19	Math 500	Elem. Algebra ≥61	BAAD ≥ 107 or QL PADI ≥80 or	
MAT 166	Math 24	Math 590	CLM 63-102	TCDI 29 - 81	
MAT 201	Math 28	Math 630	CLM ≥103	TCDI ≥82	
PHI 111-116	Reading 17	English 470* (old 430)	Read Comp ≥80	Reading ≥ 96 & Essay 5 or Reading ≥ 80 & Essay 6	
PSY 101/102					
PSY 135					
REA 112					
REA 130			Sentence Skills 70-94 &/or Read Comp 62-79	Rdg ≥ 101 & Essay 3 or Rdg ≥ 89 & Essay 4 or Rdg 50-95 & Essay 5 or Rdg 50-79 & Essay 6	ASE/DPM Programs only
SOC 101/102	Reading 17	English 470* (old 430)	Read Comp ≥80	Reading 96-150 & Essay 5 or Reading 80-150 & Essay 6	

\*\*New SAT scores effective March 1, 2016

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# Index

**A**

ABE/GED/ESL ..... 36  
 Academic Achievement ..... 94  
 Academic Advisor ..... 16  
 Academic Assessment Program ..... 29  
 Academic Assistance  
     Full Time Students ..... 29  
     Part Time Students ..... 29  
 Academic Degree Requirements ..... 21  
 Academic Evaluation ..... 23  
 Academic Renewal ..... 18  
 Academic Information ..... 15  
 Academic Integrity Procedure ..... 20  
 Academic Placement  
     & Assessment ..... 29  
 Academic Progress - Summer Term ..... 29  
 Academic Standards ..... 27  
 Academic Standards of the College ..... 23  
 Academic Support Services ..... 34  
 Accounting ..... 96  
 Adding Classes ..... 17  
 Administrative Withdrawal  
     from a Class ..... 21  
 Admission Classification ..... 8  
 Admission Information ..... 7  
 Admission of New Students ..... 8  
 Admission of Out-of State Students ..... 9  
 Admission of Transfer Students ..... 9  
 Admissions Assessment ..... 36

Agri-Business ..... 63, 77, 97  
 Agriculture ..... 98  
 Agriculture Business  
     Management ..... 78, 95  
 Agricultural Economics ..... 97  
 Agricultural Education ..... 64  
 Agriculture Mechanics ..... 99  
 Agriculture Production  
     Agriculture ..... 79, 97  
     Agriculture Transfer Programs ..... 73  
 Agronomy ..... 99  
 Animal Science ..... 64, 101  
 Anthropology ..... 52, 99  
 Application Procedure ..... 12  
 Applied Technology ..... 79  
 Art ..... 62, 100  
 Art History ..... 53  
 Assessment & Placement For Success ..... 16  
 Associate Degree Nursing ..... 90, 129  
 Associate of Applied Science  
     Degree (A.A.S.) ..... 6, 76  
 Associate of Arts Degree (A.A.) ..... 5, 61  
 Associate of General Studies (A.G.S.) ..... 6, 72  
 Associate of Science Degree (A.S.) ..... 5, 69  
 Associated Student Government (ASG) ..... 33  
 Astronomy ..... 70, 103  
 Attendance Guidelines ..... 19  
 Auditing Classes ..... 19  
 Automotive & Diesel Master  
     Technician ..... 80  
 Auto Service Technology ..... 101  
 Automotive Technology ..... 80

**B**

Biology ..... 65, 103  
 Behavioral Intervention Team ..... 34  
 Buildings ..... 6  
 Business ..... 53, 81, 104  
 Business Accounting Certificate ..... 82  
 Business Online Learning Option ..... 83  
 Business Transfer Programs ..... 53

**C**

Calendar ..... 146-147  
 Campus Activities Board (CAB) ..... 33  
 Campus Visits ..... 8  
 Cancellation of Classes ..... 19  
 Career & Technical Education ..... 75  
 Career Resource Center ..... 34  
 CCC Online Grading System ..... 25  
 CCC Online Registration ..... 21  
 Certificate of CTE Programs ..... 77  
 Certificate Programs ..... 6, 77  
 Cheating ..... 20  
 Chemistry ..... 65, 105  
 Class Attendance ..... 19  
 Classroom Conduct ..... 20  
 Code of Student Conduct ..... 38  
 College Personnel ..... 140  
 College Sanctions ..... 41  
 College Transcripts ..... 22  
 Colorado Community College Online  
     (CCC Online) .....  
     Committee ..... 33  
     Communication(Speech) ..... 54, 106  
     Comprehensive Learning Center (CLC) ..... 35  
         CLC Accomodations of Disabilities ..... 36  
         CLC ABE ..... 36  
         CLC Classes ..... 36  
         CLC ESL ..... 36  
         CLC GED ..... 36  
         CLC Personal Tutoring ..... 35  
         CLC Placement for Success ..... 36  
         CLC Workshops ..... 36

Composition and Reading ..... 104  
 Computer Information Systems ..... 106  
 Computer Web ..... 109  
 Concurrent Enrollment ..... 35  
 Conditions of Grade Appeal ..... 26  
 Confidentiality of Student Records ..... 18  
 Cooperative Work Experience ..... 21, 109  
 Cosmetology ..... 83, 106, 116, 128  
 Counseling ..... 34  
 Course Placement Scores ..... 139  
 Counseling/Assessment Services ..... 34  
 Course Registration ..... 16  
 Course Schedule Changes ..... 17  
 Credit Completion Standards ..... 28  
 Credit for Prior Learning ..... 22, 34  
 Credit Hour Load ..... 16  
 Criminal Justice ..... 54, 108

**D**

Dance ..... 109  
 Declaration of Student Rights ..... 37  
 Degrees ..... 5, 51  
 Demonstrated Preparation ..... 19  
 Developmental Classes ..... 36  
 Diesel Power Mechanics ..... 110  
 Diesel Technology ..... 6, 83  
 Diversity/Non-Discrimination ..... 38  
 Driving ..... 111  
 Dropping a Class ..... 17  
 Due Process Exceptions ..... 43  
 Due Process for Grade Change ..... 26

**E**

Early Childhood ..... 84  
 Early Childhood Education ..... 55, 84, 111  
 Early Childhood: Director ..... 85  
 Early Childhood: Group Leader ..... 85  
 Early Childhood: Nanny ..... 86  
 Earth Science (Geology) ..... 66, 118  
 Economics ..... 55, 112  
 Education ..... 112  
 Electricity Industrial/Commercial ..... 113  
 Electronics ..... 114  
 Elementary Education ..... 56  
 Eligibility Criteria ..... 13  
 Emergency Medical Services ..... 86, 114  
 Emergency Medical Technician:  
     Basic ..... 86  
     Continuing Education ..... 86  
     Intermediate ..... 87  
 Emeriti Staff ..... 142  
 Engineering ..... 66, 113  
 English ..... 56, 115  
 English As A Second Language ..... 36  
 Environmental Science ..... 70, 115  
 Ethnic Studies ..... 117  
 Equine Business Management ..... 87  
 Equine Management ..... 87, 115  
 Equine Training ..... 88, 116

**F**

Faculty Authority for the  
     Classroom Experience ..... 21  
 Faculty Authority in the Classroom ..... 19  
 Fees ..... 10  
 Final Exams ..... 25  
 Financial Aid Information ..... 12  
 Financial Aid Satisfactory  
     Progress Policy ..... 13  
 Firefighter ..... 89  
 Fire Science Technology ..... 88, 117  
 Fire Science Wildland ..... 118



First Responder .....	89
Food Services .....	32
Formal Resolution for Grade Change Request .....	27
Four-Year College or University Transfer Curricula .....	50
French .....	117
Funding Sources .....	13

**G**

GED .....	36
General Education and Guarantee Transfer Courses .....	45
Geography .....	57, 118
Geology (Earth Science) .....	66, 118
Goals .....	4
Grade Appeal Procedures Informal Resolution .....	26
Grade Reports - Grades .....	23
Graduation Application .....	23
Graduation Honors .....	23
Graduation Requirements .....	23
Grants .....	13
Graphic Design .....	126

**H**

Health & Safety .....	87
Health & Wellness .....	121
Health Professional .....	120
Health Services .....	35
History .....	57, 118
History of the College .....	5
Holds .....	17
Horticulture Business Management .....	67
How to Apply for Admission .....	8
Human Performance and Exercise.....	120
Humanities .....	121

**I**

Indebtedness Policy .....	11
Independent Studies .....	22
Industrial Maintenance.....	90, 122
Industrial Motor Control.....	90
Intercollegiate Athletics.....	34
International Student Admission .....	9
Intramurals .....	34

**J**

Journalism .....	122
Judicial Authority .....	41

**L**

Library .....	37
Literature .....	123
Loans .....	13
LPN .....	90, 129

**M**

Management .....	123
Manicuring & Esthetician Technician .....	116, 124, 128
Marketing .....	82, 124
Mathematics .....	67, 124
Microbiology .....	70
Mid Term Assessment .....	25
Millright - Wind Technology.....	126
Mission .....	4
Multimedia Graphic Design .....	126
Music .....	58, 126

**N**

NJC Office Phone Numbers .....	145
--------------------------------	-----

Northeastern Junior College Foundation .....	143
Notice of Prohibition Against Enrollment in State-Supported Institutions of Higher Education of Persons Convicted of Rioting Offenses .....	44
Nurse Aide .....	90, 129
Nursing, AAS .....	129
Nursing, Practical .....	90, 129

**O**

Ombudsperson .....	34
On-the-Job Training/Clinical Training .....	21

**P**

Peer Helping .....	34
Philosophy .....	58, 132
Philosophy & Rationale .....	37
Photography .....	100
Physical Education .....	131
Physical Education Coaching .....	62
Physical Education Recreation .....	135
Physical Education Teaching .....	62
Physics .....	68, 133
Placement for Success .....	16, 36
Plagiarized Materials Cheating or Falsifying and Assigned Materials as Original .....	20
Political Science .....	59, 133
Practical Nursing .....	91, 129
Pre-Dentistry .....	70
Pre-Engineering .....	66
Pre-Law .....	63
Pre-Medicine .....	71
Pre-Nursing .....	71
Pre-Pharmacy .....	71
Pre-Veterinary Medicine .....	71
Prerequisites .....	23
Prime Time Learners Institutional Grant .....	14
Prior Learning Assessment.....	22
Procedures for a Formal Grade Change Appeal .....	27
Production Agriculture .....	79, 97, 134
Program Emphasis for University Transfer .....	51
Proscribed Conduct .....	39
Psychology .....	59, 68, 134

**R**

Range Management .....	135
Reading .....	135
Reading Assignments, Written & Verbal Reports .....	20
Reading Prerequisites.....	36
Recreation .....	135
Refunds and Returns .....	10
Registration Compliance .....	13
Registration & Student Records Information .....	16
Repeat Course Limits .....	17
Repeating Courses .....	17
Requirements for an Appeal .....	26
Residence Halls .....	32
Residence Life/Housing .....	32
Residential Tuition Classification.....	8
Resident Credit .....	23
Room and Board Costs .....	11

**S**

Safety & Security on Campus .....	43
Satisfactory Progress/Financial Aid .....	29

Scholarships .....	13
Scholastic Honors .....	26
Science .....	135
Second Associate Degree .....	73
Semester System and Term Dates .....	16
Services for Students with Disabilities .....	36
Sociology .....	60, 135
Soil & Crop Sciences .....	69
Spanish .....	136
Special Assignments .....	20
Speech (Communication).....	54, 106
Sports Management .....	63
Sports Medicine/Athletic Training .....	71
Statewide Articulation Agreements Associate of Arts .....	52
Associate of Science .....	63
Statewide Transfer Policy .....	50
Student Account Information .....	10
Student Bill of Rights .....	49
Student Disciplinary Procedure .....	41
Student Due Process .....	43
Student Judicial System .....	37
Student Organizations .....	33
Student Responsibilities & Expectations.....	15
Student Rights & Responsibilities .....	145
Student Senate .....	33
Student Services .....	31
Campus Location/Phone .....	31
Student Success Center .....	34
Studio Art .....	60
Summer Aid .....	14
Summer School Admission .....	10

**T**

Technology Training .....	80
Test and Evaluation Assessments .....	20
Textbooks, Required Materials, Supplies & Equipment .....	20
Theatre .....	61, 136
Transfer of Credits into NJC .....	9
Transfer of Degree to all Colorado Public Four-Year Colleges & Universities .....	9
Transfer Policy .....	50
Transfer/University Parallel Programs .....	50
Tuition .....	8
Tuition/Fee Status .....	8
Two Year Guarantee .....	51

**V**

Varsity Sports .....	34
Veterans Administration Educational Benefits .....	14
Vision .....	4
Voter Registration .....	44

**W**

Web Design .....	82
Welding .....	137
Welding Technology .....	92
Western Undergraduate Exchange (WUE)...	10
Wildlife Biology .....	71
Wind Energy Technician Program .....	92
Wind Technician .....	93
Wind Turbine Generator .....	138
Withdrawal from Class(es) .....	17
Withdrawal from College/All Courses .....	18
Women's Studies .....	138
Workstudy .....	13

**Z**

Zoology .....	72
---------------	----

## NORTHEASTERN JUNIOR COLLEGE TELEPHONE NUMBERS

Academic Services .....	521-6777
Admissions .....	521-7000
Associated Student Government .....	521-6626
Alumni Association .....	521-6690
Athletics .....	521-6618
Bank of Colorado Event Center Front Desk.....	521-6756
Bookstore .....	521-6789
Business Office .....	521-6728
Cafeteria .....	522-9063
Career and Technical Education .....	521-6650
Centralized Services .....	521-6610
Comprehensive Learning Center .....	521-6791
Copy Center .....	521-6610
Cosmetology Program .....	521-6734
Counseling .....	521-6663
Financial Aid .....	521-6800
Housing .....	521-6608
Mail/Document Center .....	521-6610
Monahan Library .....	521-6612
President's Office .....	521-6601
Records .....	521-6700
Recruiting .....	521-6952
Residence Halls:	
Blue Spruce Hall .....	521-6825
Dowis Hall .....	521-6821
Herboldsheimer Hall .....	521-6822
Poole Hall .....	521-6823
Guenzi-Read-Breidenbach Hall .....	521-6824
Williams Hall .....	521-6824
Switchboard .....	521-6600
Student Success Center .....	521-6663
Student Health Center - Family Care Clinic .....	521-3223
Vice President of Student Services .....	521-6657

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<b>Northeastern Junior College Calendar Fall 2016</b>
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<b>Date</b>	<b>Day</b>	<b>Intercession Term August 3 - August 16, 2016</b>
August 2	Tuesday	Move-In Day for Intercession Term 9:00AM to 4:00PM
August 3	Wednesday	August term classes begin
August 4	Thursday	Last day to Add
August 4	Thursday	No-Show Deadline
August 4	Thursday	Last day to Drop <b>(census)</b>
August 12	Friday	Last day to Withdraw
August 16	Tuesday	Last Day of Classes
August 17	Wednesday	Final Grades Due by 10:00PM
<b>Date</b>	<b>Day</b>	<b>Fall Full Term 2016, August 22-December 16</b>
August 5	Friday	Academic Appeals and Financial Aid Appeals Due by 4:00PM
August 8	Monday	Academic Standards Review
August 15	Monday	New Faculty Orientation
August 16	Tuesday	AM-ALL STAFF IN-SERVICE/PM Office hours
August 17	Wednesday	Title III In Service (Faculty)
August 18	Thursday	Faculty In-Service
		Move-In Day-- New Students ONLY; Residence Halls Open 9:00AM to 4:00PM
		Payment Verification Day for new students
August 19	Friday	Required Orientation for New Students/Registration/Advising
August 20	Saturday	New Student Orientation Day/Activities
August 21	Sunday	New Student Orientation Day/Activities
August 21	Sunday	Move In Day--Returning Students-- 9:00AM to 4:00PM
August 22	Monday	All Classes Begin
August 26	Friday	Last Day to Add classes
September 1	Thursday	No-Shows Deadline
September 5	Monday	Labor Day- No Classes
September 7	Wednesday	Last Day to Drop Classes <b>(Census Date)</b>
September 12-16	Monday-Friday	Early Alert Grades due
October 7	Friday	All Fall Graduation Applications Due
October 17-18	Monday-Tuesday	Mid-semester Break
October 18	Tuesday	Faculty In-Service
October 20	Thursday	Mid-term Grades Due by 10:00PM
November 9	Wednesday	All Student Advising Day (No Daytime Classes)
November 9	Wednesday	Registration, Spring Semester 2017 Begins for Current Students-7:00AM
November 11	Friday	Discovery Day
November 16	Wednesday	Open Registration for Spring Semester 2017 begins
November 18	Friday	Last Date to Withdraw Full-term Classes with "W" Grade
November 18	Friday	Check Out Day--Residence Halls Close at 7:00 PM
November 21-25	Monday-Friday	Semester break/Thanksgiving Holiday <i>(No Classes)</i>
November 27	Sunday	Check In Day (after Thanksgiving Break)--Residence Halls Open at 9:00 AM
December 13	Tuesday	Last Class Day (Day Classes)/ All English Final exams 4:40PM
December 14-16	Wednesday-Friday	Final Exams Day Classes
December 16	Friday	Cafeteria Closes at 1:15PM
December 16	Friday	Check Out Day--Residence Halls Close at 7:00 PM
December 19	Monday	Final Grades Due by Noon

Fall 2016--73 class days + 3 finals day= 76

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**Northeastern Junior College Calendar Spring 2017**

<b>Date</b>	<b>Day</b>	<b>Intercession Term--January 3 to January 15</b>
January 2	Monday	Check In Day--January Term Residents Only 9:00AM to 4:00PM
January 3	Tuesday	Spring Semester Begins with J-term classes
January 4	Wednesday	Last Date to Add J-term Classes
January 4	Wednesday	No Shows Due
January 4	Wednesday	Last Date to Drop J-Term Classes
January 11	Wednesday	Last Date to Withdraw J-Term Classes with "W" Grade
January 13	Friday	Last day of classes
January 16	Monday	Final Grades Due by 10:00 p.m.

<b>Date</b>	<b>Day</b>	<b>Spring Full Term 2017, January 17-May 12</b>
January 6	Friday	Academic And Financial Aid Appeals Due by 4:00 p.m.
January 9	Monday	Academic Standards Review of Appeals
January 12-13	Thursday-Friday	In-Service
January 15	Sunday	Move In Day-Residence Halls Open 9:00AM to 4:00PM - Cafeteria Opens With Eve
January 16	Monday	Academic Advising and Registration Day - All Students New Student Orientation
January 17	Tuesday	Spring Semester Full Term Classes Begin
January 23	Monday	Last Day to Add New Classes
January 27	Friday	No Shows Due
February 1	Wednesday	Last Day to Drop Classes <b>(Census Date)</b>
February 13-16	Monday-Thursday	"Early Alert" grades due
February 17	Friday	NO CLASSES- February Break
February 20	Monday	Discovery Day
February 24	Friday	All Spring Graduation Applications Due
March 1	Wednesday	Registration for Summer begins
March 10	Friday	Check Out Day--Residence Halls Close at 7:00PM
March 13-17	Monday-Friday	Spring Break (No Classes)
March 19	Sunday	Check In (after Spring Break)--Residence Halls Open at 9:00AM
March 22	Wednesday	Mid-term Grades Due by 10:00PM
April 10	Monday	Registration for Fall Semester 2017 begins for current students at 7:00AM
April 14	Friday	Discovery Day
April 17	Monday	Associated Student Government Elections
April 21	Friday	NO CLASSES: 1/2 Day Registration Day; 1/2 Day In-Service Day
April 20	Thursday	Last Date to Withdraw Full-term Classes with "W" Grade
May 8	Monday	Last Class Day (Day Classes)
May 9-12	Tuesday-Friday	Final Exams Day Classes
May 12	Friday	Commencement-Cafeteria closes at 12:00 noon Move Out Day-- Residence Halls close at 7:00PM
May 15	Monday	Final Grades Due by 10:00PM

**Spring 2017--73 class days + 4 finals days = 77**

<b>Date</b>	<b>Day</b>	<b>Summer M-Term, May 15-26</b>
May 13-15	Sat-Sun-Mon	Move In Days--Summer Term Residents Only 9:00AM to 4:00PM
May 15	Monday	M-term Classes begin
May 16	Tuesday	Last day to Add
May 16	Tuesday	No-Shows Due
May 16	Tuesday	Last Day to Drop <b>(census)</b>
May 24	Wednesday	Last Day to Withdraw
May 26	Friday	Last Day of Classes
May 29	Monday	Memorial Day
May 30	Tuesday	Grades due by noon



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