

GENERAL CATALOG

COLORADO NORTHWESTERN COMMUNITY COLLEGE

2006 – 2007

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Colorado Northwestern Community College 2006-2007 CALENDAR

May 15-June 23		Nursing Summer Term
May 22-July 14		Aviation Maintenance, Aviation Technology, and Dental Hygiene Summer Term
May 29	Monday	Memorial Day (College Closed)
May 30-June 30		First 5-Week Summer Term
May 30-August 4		10-Week Summer Term
July 4	Tuesday	July 4 th Holiday (College Closed)
July 3-August 4		Second 5-Week Summer Term
August 23	Wednesday	New Students Not Previously Registered Arrive
		Full-Time Faculty Return
		Advisor Training
August 24	Thursday	New Student Testing/Orientation
August 25	Friday	Advising/Registration for Students Not Previously Registered
August 27	Sunday	Previously Registered Sophomore Students Arrive
August 28	Monday	First Day of Classes
August 30	Wednesday	Last Day to Register for Semester-Length Classes
September 4	Monday	Labor Day (College Closed)
September 13	Wednesday	Last Day to Add/Drop Semester-Length Classes
October 16-20	Monday-Friday	Mid-Term Week
October 20	Friday	Institutional Development Day (No Classes)
November 21	Tuesday	Last Day of Classes Before Thanksgiving
November 22-24	Wednesday-Friday	Thanksgiving Holiday for Faculty/Students
November 23	Thursday	Thanksgiving Holiday for Staff (College Closed)
November 28	Tuesday	Last Day to Withdraw From Semester-Length Classes
December 4-8	Monday-Friday	Pre-Registration for Spring Semester
December 18-22	Monday-Friday	Finals/Assessment Week
December 20	Wednesday	Semester Ends 10:00 pm
December 21	Thursday	Grades Due from Instructors - 12:00 noon
		Residence Halls Close - 10:00 am
Dec 25-Jan 1	Monday-Monday	Semester Break (College Closed)
January 2	Tuesday	Staff Return
January 11	Thursday	New Students Arrive/Testing/Orientation
		Full-Time Faculty Return
January 12	Friday	Advising/Registration
January 14	Sunday	Previously Registered Students Arrive
January 15	Monday	First Day of Classes
January 17	Wednesday	Last Day to Register for Semester-Length Classes
January 31	Wednesday	Last Day to Add/Drop Semester-Length Classes
February 16	Friday	Institutional Development Day (No Classes)
March 5-9	Monday-Friday	Mid-Term Week
March 19-23	Monday-Friday	Spring Break for Faculty/Students (Staff Present)
April 18	Wednesday	Last Day to Withdraw From Semester-Length Classes
April 23-27	Monday-Friday	Pre-Registration for Fall/Summer Semesters
May 7-11	Monday-Friday	Finals/Assessment Week
May 9	Wednesday	Semester Ends 10:00 pm
May 10	Thursday	Grades Due from Instructors - 12:00 noon
		Residence Halls Close - 10:00 am (unless graduating)
May 11 Campus)	Friday	Student Recognition Night 5-7pm Center Craig (Craig
May 12	Saturday	Commencement - 2:00 pm
		Residence Halls Close - 6:00 pm

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

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

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

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

CNCC may provide directory information or educational record information without the student's written permission. This information includes the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent educational institution attended by the student, and other similar information. Personal identifiers, such as the student's identification/social security number, cannot be designated as directory information. Students may elect to withhold directory information by notifying the Admissions and Records Office, in writing, within five days after the last day of registration. Requests for non-disclosure will be honored by the College for one academic year. Additional information may be obtained through the Admissions and Records Office.

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

Information concerning persons who are required by Colorado law to register as sex offenders, including registered sex offenders who are enrolled, employed, or volunteering at Colorado Northwestern Community College, may be obtained from the Rangely Police Department, 209 East Main, Rangely, CO, 81648, 970-675-5093 or the Rio Blanco County Sheriff's Department, Meeker, CO, 81641, 970-878-5023.

Graduation Rates: The four-year average graduation rate for first-time freshmen entering Colorado Northwestern Community College between 1995 and 1998 shows that 33% graduated within three years. Additionally, 20% of first-time freshmen who did not graduate transferred to continue their education.

GENERAL INFORMATION



History of the College

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

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

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

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

Rangely Campus

The main campus is in Rangely. The Town of Rangely is a small, rural community of approximately 2300 people, located 90 miles north of Grand Junction and 50 miles east of Vernal, Utah. The local economic base comes from oil, coal, natural gas, and ranching along the White River. One of the interesting features for which this area is known is ancient American Fremont and Ute Indian petroglyphs (paintings on rock surfaces). The terrain is high desert with rolling hills and mesas covered with sagebrush, cedar, and piñon trees. One of the largest migrating deer herds in the nation is found between Rangely, Meeker and Rifle. Antelope, elk, bear, and other wildlife are also in abundance.

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

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

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

Craig Campus

Craig, a community of 8,300 people, is located just 42 miles west of Steamboat Springs and 90 miles north of Rifle off I-70. The area boasts beautiful, deep river canyons, sandstone buttes with petroglyphs, large alpine forest, rolling high plains, and mountains. The area is a haven for hunters, fishermen, backpackers, mountain bikers, rafters, skiers, and golfers. Craig's economy is inter-dependent on ranching, farming, energy extraction, and tourism.

Administrative offices are located and many classes are held in the Bell Tower, an office building located on the west side of Craig. Additionally, Trapper Health Club provides students with access to racquetball courts, weight training equipment, aerobic exercise classes, and more.

Service Areas

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

Accreditation

Colorado Northwestern Community College is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools (www.ncacihe.org Phone (312) 263-0456). The Dental Hygiene program is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education. Aviation programs are certified and supervised by the Federal Aviation Administration.

CNCC Vision, Mission, and Goals

Colorado Northwestern Community College Vision Statement

CNCC will be the premier community college in Western Colorado.

Colorado Northwestern Community College Mission Statement

CNCC will provide accessible, affordable, quality education to prepare learners to achieve their educational, workplace, and personal goals.

Colorado Northwestern Community College Strategic Goals

Goal 1: Learners will be successful at CNCC and express satisfaction with their experience here.

Goal 2: CNCC will develop and maintain a sound fiscal base that is capable of supporting the educational mission of the College.

Goal 3: CNCC will develop quality, innovative classes and programs that meet the expressed needs of its learners and communities.

Goal 4: CNCC will build a community that employs open, effective, comprehensive, and accurate communication on all levels.

Goal 5: CNCC will implement and sustain a comprehensive assessment process that fosters innovation and continuous improvement in student learning.

ADMISSIONS



Admission for Regular Students

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

Admission for Special Students

Students who do not meet the requirements for regular admission, and students who intend to enroll under the Post Secondary Enrollment Options Act, may be admitted as special students. Special students are subject to mandatory assessment and placement policies. Students under the age of 16 must be granted an Age Waiver, approved by the Dean of Instruction, and signed by the President of the College. Age Waiver forms may be obtained from the Admissions and Records Office.

Admission Under Ability to Benefit (ATB)

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

1. The student is at least 16 years old and not attending high school; and
2. The student demonstrates an "ability to benefit" from postsecondary education by passing an appropriate test at the level specified by the United States Department of Education.

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

Reading Comprehension	55
Sentence Skills	60
Arithmetic	34

An ATB candidate must meet or exceed the minimum scores on each of the three approved tests in a single testing experience. Candidates who do not meet or exceed all three passing scores must retake the complete set of three tests and pass all three tests in that administration.

Admission for Transfer Students

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

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

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

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

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

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

Admission for International Students

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

- General Application for Admission
- High School Transcripts, translated to English (see Admissions Procedure for details)
- College Transcripts, translated to English (see Admissions Procedure for details)
- Certificate of Health (see Admission Procedure for details)

Results of the Test of English as a Foreign Language (TOEFL) or successful completion of an English as a Second Language program and a recommendation from an English Instructor. This test is not required of students from countries where English is the native language. Students with TOEFL scores below 500 may be denied admission.

A financial statement outlining resources available and assuring support while the student is in the United States.

A deposit of \$500 prior to issuance of an I-20. This deposit will be applied to the student's first semester expenses. The I-20 will be forwarded after the student is accepted and the \$500 deposit is received.

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

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

1. **Application for Undergraduate Admission** - Application forms may be obtained from any Colorado high school or by writing or calling the Admissions Office at Colorado Northwestern. An Application for Admission may also be completed online at www.cncc.edu.
2. **High School Transcripts** - Official seventh semester and/or final high school transcripts are required of all applicants who have or will graduate from high school. Applicants who have not graduated from high school are required to submit the results of the GED examination, unless seeking admission as a special student. High School transcripts are to be forwarded directly by the issuing institution to the Admissions Office. Transcripts presented by the applicant will not be accepted.
3. **College Transcripts** - Applicants who have attended college elsewhere must submit a transcript of all college work from each college attended. College transcripts are to be sent directly by the issuing institution to the Admissions Office. Transcripts carried by the applicant will not be accepted.
4. **Student Profile Report of the American College Test (ACT), Scholastic Aptitude Test (SAT), Accuplacer Assessment Scores, ASSET Assessment Scores, or Compass Assessment Scores** - ACT, SAT, Accuplacer, ASSET, or Compass examinations are not required, but are used in determining whether or not a student is required to take placement exams at CNCC prior to registration (see mandatory placement policy). Students who have taken any of the exams above **within the last two years** are encouraged to submit scores to the Admissions Office.
5. **Certificate of Health** - Students entering Colorado Northwestern for the first time and participating in varsity athletics and/or one of the criminal justice academies are required to present a certificate of good health by a family physician. In addition, students entering the Aviation Technology Program are required to obtain a physical from an FAA approved physician.
6. **Immunization Records** - (Rangely Campus students and nursing students only) All students who were born after 1956 and attending full-time must show documented proof of measles, mumps and rubella immunization (two doses after the first birthday), prove immunity, or request a waiver from immunization. A waiver from immunization is permitted for medical, religious, or philosophic reasons. In the event of a measles outbreak, these individuals will be denied access to the campus and can be quarantined. Failure to comply with this policy will result in withholding registration after the first semester of attendance until acceptable proof is obtained. *Nursing students must meet additional immunization requirements. Contact the Director of the Nursing Program for further information.*

Mandatory Assessment

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

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

English	18
Reading	17
Mathematics	19

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

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

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

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

7. Students who have taken one of the following college placement exams within the two years prior to enrollment are exempt from assessment **in that subject area only** if they scored

<u>Reading</u>	
Asset	41
Accuplacer	80
Compass	75
<u>Writing</u>	
Asset	41
Accuplacer (Sentence Skills)	95
Compass	70
<u>Mathematics</u>	
Asset (Intermediate Algebra)	41
Accuplacer (Elementary Algebra)	85
Compass (Algebra)	55

8. Students who are enrolled in a certificate program that does not require college-level English or math courses.
9. Secondary students who are enrolled in courses that do not require college-level reading, English, or math skills (PE, Ceramics, etc.).

There is a small fee for Accuplacer placement testing at Colorado Northwestern Community College. Students may re-test one time at no additional cost for this re-testing.

Mandatory Placement

If a student's performance on a college placement exam indicates that the student needs basic skills instruction in reading, English and/or mathematics, the student **must** enroll in appropriate basic skills courses.

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

REA 030	Basic Reading Skills
REA 060	Foundations of Reading
REA 090	College Preparatory Reading
ENG 030	Basic Writing Skills
ENG 060	Language Fundamentals
ENG 090	Composition Style and Technique
MAT 030	General Skills in Mathematics
MAT 060	Pre-Algebra
MAT 090	Introductory Algebra
MAT 106	Survey of Algebra

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

Arapahoe Community College	Morgan Community College
Adams State College	Mesa State College
Aims Community College	Northeastern Junior College
Community College of Aurora	Otero Junior College
Community College of Denver	Pikes Peak Community College
Colorado Mountain College	Pueblo Community College
Front Range Community College	Red Rocks Community College
Lamar Community College	Trinidad State Junior College

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

Admission to the Aviation Technology Program

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

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

Admission to the Dental Hygiene Program

Application to Colorado Northwestern is the initial step for entrance into the Dental Hygiene Program. Dental hygiene is limited to 27 new students each year and generally receives more applicants than can be accepted. Applications must be received in the Admissions and Records Office by February 1st. A complete application includes all materials listed under the Admissions Procedures, a Supplemental Application for Dental Hygiene, verification of in-progress courses, three Reference Forms (references must be made on the CNCC Reference Form, cannot be from relatives, must be sent directly to the Admissions Office, and will be destroyed after the selection process is completed), and a Verification of Dental Office Experience (not required for admission, but dental office experience is considered in the application process). Transcripts of college course work need to be submitted at the end of the current Fall Semester/Quarter. A transcript is required from each institution attended. Failure to submit all required materials by the deadline will negate the application process. It is the applicant's responsibility to verify that all materials have been forwarded to the Admissions Office.

A personal interview is required of those applicants being considered for admission to the program. Applicants will be asked to write a one-page essay at the time of the interview. Candidates are selected by the Dental Hygiene Selection Committee, who base their decision on academic preparation, evaluation during the interview, and evaluation of written communication skills.

Prerequisites to be considered for the Dental Hygiene Program

1. College Grade Point Average of 2.8 on prerequisite classes and general education classes, which are applicable to the Dental Hygiene Program.
2. Successful completion with a minimum grade of C or better or verification of in-progress status of the following (or the equivalent) by February 1st:
 - a. BIO 201& 202, Human Anatomy and Physiology I,II
 - b. BIO 204, Microbiology
 - c. Introduction to Chemistry II (satisfied by CHE 102 or CHE 109, General, Organic and Biochemistry).
Note: CHE 101, Introduction to Chemistry I, is a prerequisite to
 - d. CHE 102 at CNCC.
 - e. ENG 121, English Composition I
 - f. HWE 100, Human Nutrition

If selected, applicants must submit final official transcripts for all required courses to the Registrar's Office by June 1st.

NOTE: The course numbers listed above are course numbers at CNCC. For equivalent courses at other colleges/universities, or if you have questions concerning any of the above requirements, contact the Admissions and Records Office at CNCC.

Complete application instructions and all application materials can be found on the CNCC website (www.cncc.edu) or obtained through the Admissions and Records Office.

Admission to the Nursing Program

The nursing program consists of three distinct programs: Nurse Aide (graduates receive a certificate and are eligible to obtain a license from the state as a CNA), Practical Nursing (graduates receive a certificate and are eligible to obtain state licensure as an LPN), and Associate Degree Nursing (graduates receive an associates degree in applied science and are eligible to obtain state licensure as an RN). Application to Colorado Community College System (CCCS) is the initial step for entrance into the Nursing Program. Applications are accepted at any time from eligible students who have met the prerequisites. Students meeting the eligibility criteria will be placed on a waiting list to be enrolled in the next available class. Information about prerequisites and the application process should be accessed at www.cccs.edu.

Students with Disabilities

Any student with a temporary or permanent disability (mobility, visual, learning, mental, emotional, speech or health) should contact the Director of Student Life (Rangely) or the Dean of the Craig Campus/Registrar (Craig) for assistance at least 4 weeks prior to the beginning of the semester. Appropriate documentation is required by CNCC to support the need for services the student may request. Arrangements for accommodations for a student with a disability seeking access to educational programs will be provided by the Director or the Dean.

Registration

In order to become a student at Colorado Northwestern, an applicant must register on official forms provided by the College or through the online registration process at the appointed time. Credit will be given only for courses for which the student is registered.

Academic Advising

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

In order to assure that students meet Associate Degree and/or Certificate requirements, and to assure maximum transferability of courses, the student and his or her advisor will have available to them a Program Worksheet. A proposed program will be outlined to assist the student in meeting degree or certificate requirements. Changes may be made in the program requirements only through mutual agreement of the student and the Program Director and approved by the Dean of Instruction.

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

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

Changes of Schedule

Students are expected to arrange their academic schedule carefully and maintain this schedule throughout the semester. Necessary schedule changes are to be initiated through the Admissions and Records Office in conjunction with the permission of the student's advisor and the instructor of the course affected by the schedule change.

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

Students may withdraw from a course any time through 80 percent of the course without penalty, and the grade assigned will be "W." Courses dropped after this time will result in a grade of "F" for the course. If extenuating circumstances exist, the Dean of Instruction may change the "F" grade to "W." No refund is granted for classes from which a student withdraws.

Withdrawal from the College

A student who decides to leave the college during a semester must make formal application to the Dean of Instruction for permission to do so. If permission is granted, the student is obligated to comply in full with established clearance procedures. Until the Registrar certifies the withdrawal to be complete, no refunds can be made and no transcripts will be issued (see change of schedule).

A statement of honorable dismissal will be given upon request if the student's status regarding conduct, character, and scholarship is such as to permit continued enrollment at the college.

A student who withdraws after the last day to withdraw will receive a "W" in each course.

Student Conduct

Colorado Northwestern students neither gain nor lose any of the rights and responsibilities of other citizens by virtue of their student status. The College recognizes the student as an adult pursuing an education. Just as a student does not lose citizenship rights upon enrolling at a college, the student also does not become immune to society's obligations and laws or to responsibilities of daily living in a broader society. In general, behavioral norms expected of the college student are those of common decency and decorum, recognition of the non-infringement upon the rights and property of others and of the College, honesty in academic work and all other activities, and observance of local, state, and federal laws. When students enter college, they take upon themselves certain social responsibilities and obligations including satisfactory performance and social behavior consistent with the lawful purposes of the College. Student conduct, therefore, is not considered in isolation within the college community but as an integral part of the educational process. All students are expected to know and abide by this code of student conduct. Ignorance is not an excuse. As members of the college community, students are also subject to the rules and regulations of the College that are stipulated in the *Student Handbook* and *College Catalog*.

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





TUITION AND FEES SCHEDULE 2006 - 2007

Tuition and fees are subject to change by the State Legislature and Governing Board. Some courses have extra charges.

See the 2006 Fall Class Schedule for more information. (Effective July 1, 2006)

TUITION

In-State tuition (resident with COF)	\$ 74.55 per credit hour
In-State Tuition (resident without COF)	\$160.55 per credit hour
Out-of-State Tuition (nonresident)	\$160.55 per credit hour
CCC Online Courses (resident with COF)	\$136.40 per credit hour
CCC Online Courses (resident without COF)	\$222.40 per credit hour
CCC Online Courses (Out-of-State)	\$216.40 per credit hour
WUE (Western Undergraduate Exchange).....	\$160.55 per credit hour

Additional Tuition for High-Cost Programs

Nursing (NUR)	\$ 33.00 per credit hour
Dental Hygiene (DEH)	\$ 70.00 per credit hour
Aviation Maintenance (AMT)	\$ 70.00 per credit hour
Aviation Flight Technology (AVT)	\$100.00 per credit hour

FEES

College Fee

Student Life Fee	\$ 7.05 per credit hour
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Other Charges

Registration Fee (all students).....	\$ 10.40 per semester
Medium- and High-Cost Course CIP fee	\$ 5.70 per credit hour
CISCO Course Fee	\$ 15.60 per credit hour
Course Charge	\$ Vary per class
Library Fines.....	\$ Vary
Returned Check Fee	\$ 20.00

ROOM AND BOARD

Room Charges (Rangely): Per-Semester Rate*

	1 st Sem. 100%	2 nd Sem. 90%	3 rd Sem. 50%	4 th Sem. Free
Ross Hall Double.....	\$1,110.00	999.00	555.00	0.00
Ross Hall Single	\$1,660.00	1494.00	830.00	550.00*
Holland Hall Double.....	\$ 890.00	801.00	445.00	0.00
Holland Hall Single	\$1,350.00	1,215.00	675.00	0.00
Nichols Hall Double	\$ 750.00	675.00	375.00	0.00
Nichols Hall Single	\$1,110.00	999.00	555.00	0.00

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

Board Charges: Per-Semester Rate

19 meals per week	\$1,715.00/semester
14 meals per week	\$1,630.00/semester
12 meals per week	\$1,600.00/semester

Sagewood Apartments (Rangely)*

All apartments are monthly rates

	Unfurnished
1 Bedroom.....	\$430.00
2 Bedroom.....	\$480.00
3 Bedroom.....	\$550.00

*NOTE: A housing deposit of \$100.00 is required per student for all College housing.

College Opportunity Fund (COF)

The State of Colorado has money put aside for your tuition. You must apply for COF or you'll pay more for your tuition bill. The COF stipend is worth \$80 per credit-hour for the 2005-2006 academic year. There are no income qualifications. You must be eligible for in-state tuition. You only have to apply once, and you will receive the stipend every term that you take eligible undergraduate courses, and have not met your 145 credit lifetime limit. If you have not yet done so, apply for your stipend at www.CollegeInColorado.org or visit our website, www.cncc.edu, and click on the College Opportunity Fund logo in the lower right-hand corner of our homepage.

Tuition Assistance

Persons 60 years of age and over, as well as residents of the Rangely Junior College District or Moffat County Junior College District, will receive assistance for part or all of their tuition. For more information about this tuition assistance, please contact the Admission and Records Office, Financial Aid Office, or the Accounts Receivable Office.

Tuition Payment Policy

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

Students may choose one of two payments options: 1) full payment can be made at registration, or 2) payments can be made in three installments, one-third due at registration. Student wishing to pay in installments **must** make arrangements with the Account Receivable Office and sign a promissory note. There is a \$10.00 charge for promissory notes.

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

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

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

CNCC will accept Check, Money Order, Cash, Visa, Discover, and Master Card. There will be a \$20.00 charge for all returned checks.

Students Sponsored by a Third-Party Agency

A valid letter of sponsorship must be on file in the Accounts Receivable Office. Students must make arrangements for agency billing with Accounts Receivable in accordance with payment deadlines. Students are responsible for any charges not covered by their agency and are subject to late fees and refund guidelines.

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

Refund Policy

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

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

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

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

For more information on payments or refunds, call the Accounts Receivable Office at 1-800-562-1105, ext. 200.

Residence Hall Deposit (Rangely Campus Only)

If written notification of contract cancellation by the applicant is given to the College and postmarked no later than June 30, the \$100 housing deposit will be refunded. If a housing application is received after June 30, written notification of cancellation must be received within two weeks of receipt of the housing application. If written notification is received after the above deadlines, the \$100 housing deposit will be forfeited.

Room and Board (Rangely Campus Only)

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

Determination of Residence Status for Tuition Purposes

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

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

Members of the armed forces (or their dependents) may be granted in-state status upon moving to Colorado on permanent change-of-station basis.

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

Determination of In-District Residence for Tuition Assistance Purposes

Provided in-state requirements have been met, establishment of bona-fide residence within the Rangely Junior College District requires that a person be employed within the district on a full-time basis for six consecutive months, with the expectation of continuing residency on a year-round basis, or that the student/parent owns property within the College District. Residency of non-emancipated minors shall be that of the head of the family. Student employment or temporary work will not be considered as criteria in establishing residency for tuition purposes.

Determination of Affiliated College District Residence for Tuition Assistance Purposes

Provided in-state requirements have been met, establishment of a bona-fide residence within the Moffat County Affiliated Junior College district requires that a person resides within the District on a full-time basis for six consecutive months with the expectation of continuing residency. Residency of non-emancipated minors shall be that of the head of the family.

Western Undergraduate Exchange (WUE)

Colorado Northwestern Community College participates in the Western Undergraduate Exchange (WUE), a program of the Western Interstate Commission for Higher Education (WICHE). Through WUE, certain students who are not residents of Colorado may pay reduced out-of-state tuition rates. Information about the WUE program may be obtained from the Admissions and Records Office.

Students admitted under the WUE program must have a minimum 2.5 high school grade point average or a minimum 2.5 grade point average on 15 semester hours of college course work. This program is not available to students enrolling in the Dental Hygiene or Nursing Programs.

Colorado residents may enroll as WUE students in designated institutions and programs in other participating states. Tuition paid by Colorado residents in other WUE institutions is resident tuition plus 50 percent of that amount (plus other fees that are paid by all students in that particular program).

Information about WICHE/WUE programs in other states may be obtained from the WICHE Office, Colorado Commission on Higher Education, 1300 Broadway, 2nd Floor, Denver, CO 80203. (303) 866-2723.





FINANCIAL ASSISTANCE

A wide variety of financial assistance programs are available to both full-time and part-time degree/certificate seeking students. Since the extent of support and qualifying conditions are changed periodically by sponsoring agencies, the list that follows should be thought of as representative only. Inquiries concerning the most recent information should be addressed to the Office of Financial Aid at Colorado Northwestern.

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

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

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

TYPES OF GRANTS/SCHOLARSHIPS

Federal Pell Grants

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

Federal Supplemental Educational Opportunity Grants

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

Institutional Grants and Scholarships

Colorado Northwestern Community College has a variety of scholarships and grants available for both new and continuing students at all CNCC campuses and service area centers. Applicants must be planning to enroll in a degree or certificate program. Colorado residency is a requirement for all scholarships/grants, unless otherwise stated. The applications can be obtained directly from the Financial Aid Office or by accessing the Financial Aid section of the CNCC website under forms and applications.

CNCC Program Scholarship

Applicants for this scholarship are selected on the basis of a completed application and quality of their essay describing college and career goals. Scholarships are awarded through the applicant's stated academic or vocational program area. Eligibility criteria: a minimum GPA of 2.0 high school or college (whichever is most recent) or a GED. Annual Award: \$500
Renewable upon the completion of 24 credit hours with a cumulative GPA of 2.0.

CNCC Academic Scholarship

Applicants for this scholarship must graduate within the top 16% to 25% of their high school graduating

class. Full-time attendance is required. Annual Award: \$1,500
Renewable upon the completion of 30 credit hours with a cumulative GPA of 3.0.

CNCC Presidential Honors Scholarship

Applicants for this scholarship must be either the Valedictorian or Salutatorian of their high school graduating class. Full-time attendance is required. Annual Award: \$2,000 plus an on-campus room
Renewable upon the completion of 30 credit hours with a cumulative GPA of 3.25.

CNCC Presidential Scholarship

Recipients of this scholarship must graduate within the top 15% of their high school graduating class. Full-time attendance is required. Annual Award: \$2,000
Renewable upon the completion of 30 credit hours with a cumulative GPA of 3.25.

Alumni Family Scholarship

Applicants must be a dependent of a CNCC graduate. A minimum high school GPA of 2.0 or a GED is required. Full-time attendance is required. Annual Award: \$700
Renewable upon the completion of 24 credit hours with a cumulative GPA of 2.0.

First Generation Scholarship

Applicants must be the first member of their immediate family to attend college. A minimum high school GPA of 2.0 or a GED is required. Full-time attendance is required. Seventy percent of these awards will be need-based. Annual Award: \$700
Renewable upon the completion of 24 credit hours with a cumulative GPA of 2.0.

New Beginnings Scholarship

Applicants must be at least 25 years of age and enrolling in college for the first time. A minimum high school GPA of 2.0 or a GED is required. Full-time attendance is required. Annual Award: \$700
Renewable upon the completion of 24 credit hours with a cumulative GPA of 2.0.

Athletic Grants (Rangely Campus)

A limited number of Athletic Grants in varying amounts are available to outstanding high school athletes. These grants are awarded in all varsity sports supported by the College.
At the present time, athletic grants are available in men's baseball and women's softball, in men's and women's cross country and basketball, and women's volleyball.

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

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

State-Funded Student Assistance Programs

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

Colorado State Grant

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

for determining eligibility has been established by the State.

Level 1: Students with the least ability to pay (Expected Family Contribution, EFC, must be below 150% of that required of a Pell Grant). The minimum award for this group of students is \$1,500 and the maximum award is \$5,000.

Level 2: Students with documented need and moderate ability to pay (EFC between 150% and 200% of that required for the minimum Pell Grant). The maximum award for this category of students is \$2,500.

Level 3: Student with documented need and average ability to pay. Students who demonstrate financial need as calculated by the federal methodology. Maximum award for this category of students is \$500.

Because funding is limited, CNCC makes every effort to limit funding to students in Level 1. Occasionally, students in Level 2 may receive assistance from this program.

Centennial Scholars Program

The goal of Colorado's Centennial Scholars Program is to recruit and retain undergraduate Colorado resident students at Colorado colleges and universities who demonstrate outstanding levels of academic achievement.

Eligibility for the Centennial Scholars program is a 3.75 GPA as a recent Colorado high school graduate. A student in postsecondary education must have a minimum cumulative 3.75 GPA to be eligible as a first-time Centennial Scholar.

Renewal of this award will require a 3.5 GPA.



Colorado Leveraging Education Assistance Partnership Program

This grant is federally and state funded and is available to the undergraduate Colorado resident "financially needy" student. (Based on the Free Application for Federal Student Aid).

Governor's Opportunity Scholarship

A limited number of scholarships are available to Colorado residents entering college for the first time. Eligible students must show significant financial need (parent contribution of "\$0"), documented by completion of the Free Application for Federal Student Aid. Applicants must demonstrate academic motivation and preparation. Awards are made in conjunction with the Federal PELL Grant, work-study, and other scholarship offers to ensure that the recipient's cost of attendance is met, eliminating the need for a student loan.

LOANS

Federal Perkins Loan

Where need has been determined in accordance with established procedures, the student may borrow a total of \$8,000 in a two-year period. The interest rate is 5%. Repayment of these loans commences nine months after the student leaves the school or completes his/her education. Up to 10 years may be allowed to repay the loan. The amount of payments depends upon the size of the debt, but usually at least \$40 per month must be paid. The school can agree to a lesser amount, but it must be due to extraordinary circumstances, such as prolonged unemployment.

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

Federal Family Education Loan Program (FFELP)

The Federal Family Educational Loan Program allows students to borrow low-interest loans to assist in meeting the costs of higher education. Undergraduates may borrow up to \$2625 for their first 30 credits and up to \$3500 as a sophomore under the Federal Stafford Loan Program. Depending on students' financial need (cost of attendance less expected family contribution), the loan may be subsidized (the government pays the interest) or unsubsidized (the borrower pays the interest). Independent students and dependent students whose parents cannot obtain a PLUS may also borrow up to \$4000 more as an unsubsidized loan. The interest rate is variable, not to exceed 8.25 percent. The rate is adjusted every July 1.

The FFELP also encompasses the Federal PLUS Loan. Parents of dependent students may borrow up to the cost of education minus any other resources, provided they have good credit histories.

Work-Study

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

Colorado Work-Study Program

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

Federal College Work-Study

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

Institutional Work-Study

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

Veterans Assistance

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

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

Regulations Concerning Satisfactory Progress

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

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

This criterion represents minimum standards, which students must meet. The standards are based on full-time, three-quarter time, and half-time attendance in the degree or certificate program. In order to maintain satisfactory **incremental progress**, students must complete a minimum of 75% of CUMULATIVE attempted credits hours. For satisfactory **academic progress**, students must maintain a cumulative grade point average of 2.0.

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

Students will be eligible for financial assistance for up to 150% of the number of credits required to complete their degree/certificate program.

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

Rights of Appeal

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

Student Records

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

Special Note: If further information concerning grants, loans, and work-study is desired, contact the Office of Financial Aid.

STUDENT SERVICES



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

Health Services

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

Colorado Northwestern does not offer a campus health clinic. Students can receive medical services through Rangely Family Medicine and Rangely District Hospital (970) 675-5011 on the Rangely Campus, and through Memorial Hospital (970) 824-9411 or The Care Clinic (970) 824-2273 on the Craig Campus.

STUDENT LIFE AND HOUSING

Student Senate (Rangely and Craig)

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

College Life (Rangely)

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

Activities: Student Life provides a variety of activities and leadership roles for student participation. The Campus Activities Board (CAB), comprised of students and College staff, furnishes the campus with entertainment ranging from movies, magicians, dances, bands, and musicians to educational speakers.

Intramurals: The Intramural Recreation Sports Council (IRSC), consisting of students, coordinates and plans all non-varsity athletic activities. The IRSC offers co-recreational basketball, volleyball, sand volleyball, softball, golf, racquetball, dodge ball, pool, cards, tennis, and arena football leagues, as well as various intramural tournaments.

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

Student Housing (Rangely Campus):

CNCC has three co-ed residence halls on campus, which can house 225 students. Single rooms are offered in Holland Hall. The residence hall areas are staffed with one full-time director and a supporting staff of 12 resident assistants. The residence hall staff enforces hall policies and provides educational programming for residents. Alcohol, drugs, tobacco, and weapons are prohibited. Refer to the *CNCC Student Handbook* for further information.

Freshmen Live-In Requirement

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

Deadline for Housing Application

Housing assignments for residence halls will not be assigned until the housing application, housing contract, and \$100 housing deposit have been received. Once these items have been received, the housing assignment will then be made on a priority system based on the date they were received.

If written notification of contract cancellation by the applicant is given to the Department of Student Life and postmarked no later than June 30, the \$100 housing deposit will be refunded. If housing applications are received after June 30, written notification of cancellation must be received within two weeks of receipt of the housing application. If written notification is received after the above deadlines, the \$100 housing deposit will be forfeited.

Off-Campus Housing

CNCC owns and operates Sagewood Apartments, located on the west side of Rangely. They are available primarily for students who are 21 years of age or older, married, or single parents. The apartment complex, located approximately 1 mile from campus, provides an opportunity for students with families to gain an education while maintaining the family unit.

LIBRARY SERVICES

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

LEARNING ASSISTANCE SERVICES

Learning Assistance Program

Students who need to improve their background in English, reading, math, and study skills will find the opportunity through the Learning Assistance Program. This academic support program may offer classes, small-group tutorials, and individual walk-in assistance or peer tutoring. Also, students who have not earned a high school diploma may prepare for the GED examination. For more information about CNCC's Learning Assistance Program, contact Learning Assistance on the Rangely Campus at 800-562-1105 (x234) or the Adult Learning Assistance Program (ALAP) on the Craig Campus at 800-562-1105 (x126).

Individual assistance in the Service Areas may be arranged by contacting the Service Area Director at 800-562-1105 (x135).

Disabled Student Services

Tutorial and other services are available to students with temporary or permanent disabilities. Services for the learning disabled are provided. The computer labs in the Adult Learning Assistance Program at Craig are equipped with educational tools for persons with special needs.

INTERCOLLEGIATE ATHLETICS

Inter-collegiate athletic competition is offered for Rangely Campus students in men's basketball and baseball, and women's basketball and softball. Affiliations include the Scenic West Athletic Conference (SWAC) and the National Junior College Athletic Association (NJCAA) Region XVIII. For more information about CNCC's intercollegiate athletic programs, contact the Athletic Director at (970) 675-3285, the Assistant Athletic Director at (970) 675-3312, or Information Central at (800) 562-1105.

ACADEMIC REGULATIONS



Academic Council

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

Attendance Policy

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

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

Administrative Drop

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

Administrative Withdrawal

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

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

Student Credit Load

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

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

Final Examinations

Final examinations are given in most courses, and students are responsible for taking all assigned final examinations as they are listed in the examination schedule. Final examinations will not be given in advance of the scheduled time without the approval of the Dean of Instruction.

Independent Study Policy

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

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

Credit for Prior Learning

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

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

A student may receive up to 25% of the total credits toward a degree or certificate through a portfolio. A student may receive up to 50% of total credits for all types of prior learning. Exceptions may be made for military students enrolled in military degree programs.

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

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

Classification of Students

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

Grading System:

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

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

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

S – Satisfactory Satisfactory (S) indicates passing in a course taken for pass-fail. A grade of (S) will not affect the overall grade point average, but will increase the total number of credit hours completed. An (S) grade in all CNCC courses represents a performance in the course equal to a C or higher.

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

AU - Audit	<p>Indicates the student has audited the course for self-enrichment or to visit the class periodically as a method of reviewing subject matter. The "AU" is placed on the student's permanent record; however, is not computed in the student's grade point average or credits attempted/completed.</p> <p>Changes "to" or "from" audit status must be made during the registration or add/drop period. The withdrawal procedures apply to audit students; however, the student is not required to regularly attend the class or be evaluated, although regular class attendance and participation is encouraged to assure maximum benefit from the audit experience.</p> <p>All degree-seeking students, whether full- or part-time, are advised not to take courses on an audit basis as they are not applied towards degree requirements and are not considered as credit hours attempted for financial aid purposes.</p>
W – Withdrawal	<p>Indicates that a student dropped a course after the first 15 percent of the course, but prior to the first 80 percent of the course. A grade of "W" is not computed in the student's grade point average, but is posted on the student's official transcript.</p>

Computation of Grade Point Average

A three-credit course with a grade of "A" would earn 12 grade points (3 credit hours times 4 quality points). Total grade points accumulated by a student are divided by total credits attempted (excluding W, P, and I grades) to calculate a student's cumulative grade point average, or GPA.

Repeating Courses

If a course is repeated to raise the grade, the original grade will be marked as a repeat, and the most recent grade earned will be used in the calculation of the grade point average. However, all grades earned will be reflected on the transcript. A course may be used only once to meet graduation requirements for any degree or program.

Change of Grade

A grade reported to the Records Office may be changed upon recommendation of the faculty member issuing the grade and then upon authorization by the Dean of Instruction.

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

ACADEMIC PROBATION, SUSPENSION, AND EXPULSION

Academic Standards

Students who have attempted 12 or more hours at Colorado Northwestern Community College ("W" and "AW" are, for this purpose, included as attempted) and who have earned a cumulative grade point average below 2.0 are placed on **Academic Probation**.

A student on academic probation must earn a **semester** grade point average of 2.0 for each subsequent semester enrolled until a cumulative grade point average of 2.0 or higher is reached. The student will remain on academic probation until such time. A student on academic probation may not carry an overload, except to meet minimum program requirements.

A student on academic probation whose subsequent **semester** grade point average falls below 2.0 will be placed on **Academic Suspension** for the next full academic semester (not including summer semester), at which time the student may enroll in no CNCC courses. After serving one semester of suspension, a student may return to the College, on academic probation status, and will remain there until a cumulative grade point average of 2.0 is reached.

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

Expulsion

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

President's Academic Distinction List

Any student who completes 12 or more credit hours in one semester and maintains a GPA of 4.0 will be placed on the President's Academic Distinction List.

Dean's List

Any student who completes 12 or more credit hours in one semester and maintains a GPA of 3.5 to 3.99 is placed on the Dean's List.

Recalculation of Grade Point Average

A student who re-enrolls at Colorado Northwestern Community College after an absence of three or more years may petition the Dean of Instruction to have his/her cumulative hours recalculated. If the petition is approved, the student resumes his/her academic program and begins with a new cumulative grade point average. All courses taken will remain on the permanent record, but only courses with marks of "A", "B", "C" will be allowed toward degree requirements and count in the total hours earned.

Transcripts

The Records Office will send a transcript of credits to other collegiate institutions or outside agencies with a **written request** signed by the student. Official transcripts are \$3.00, and payment must be received prior to transcripts being sent. Transcripts can be faxed for an additional \$3.00 per page. No transcripts will be released as long as the student has outstanding obligations (financial or otherwise) at Colorado Northwestern.

Transfer Dispute Appeals Process

Students wishing to file an appeal when transferring CNCC coursework to a State four-year public institution must do so within 15 days of receiving their transcript evaluation. This is done by writing the office assigned the responsibility for transfer evaluations at the receiving institution. The decisions made in the transcript evaluation will be binding if the student fails to file a complaint within this time frame. Upon receipt of the student's written appeal, the receiving institution will have 15 days to respond in writing to the student. If the dispute cannot be resolved between the student and the staff at the receiving institution, the student may appeal in writing to the sending institution. The student has 15 days from receipt of the receiving institution's written notification to file an appeal with the sending institution. The campus presidents from the sending and receiving institutions will attempt to resolve the dispute within 30 days from receipt by the sending institution of the student appeal. Agreement between the sending and the receiving institutions will constitute a final and binding decision, which the receiving institution will communicate to the student.

Academic Dishonesty

Colorado Northwestern considers academic dishonesty, which includes cheating and plagiarism, to be an extremely serious offense, which will be dealt with by appropriate disciplinary action.

Cheating

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

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

Plagiarism

The word "plagiarism" refers to the use of another person's work without giving proper credit to that person. When copying verbatim another person's work (i.e., words, phrases, sentences, or entire passages), a student must credit that person through the use of quotation marks and appropriate documentation (e.g., MLA or APA Style). When paraphrasing another person's work (i.e., borrowing but rewording that person's facts, opinions, or ideas), a student must give proper credit through the use of appropriate documentation.

Actions Taken Against Academic Dishonesty

If an instructor ascertains an act of academic dishonesty, he or she may assign the student involved a double F (failing) grade for that exam or assignment. This means a student may receive two (2) failing (F) grades for that assignment. Furthermore, the instructor will report the incident to the Dean of Instruction who, after consulting with both the instructor and the student and after obtaining sufficient proof of dishonesty, may place that student on probation. The student shall be notified in writing of the probationary action. If the same student commits a subsequent (second) act of academic dishonesty, then the Dean may suspend or expel the student from the College.

Certain programs or disciplines may require stronger penalties for academic dishonesty. Information on such policies may be obtained from the appropriate Program Director, Department Chair, or the Dean of Instruction.

Academic Appeals Procedure

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

Academic appeals may be instituted in the following areas:

- Denial of program completion/graduation
- Academic dismissal from a program
- Final grades

Note: Appeals/grievances of a non-academic nature are filed with the Director of Student Life (Rangely) or the Dean of the Craig Campus/Registrar (Craig) in accordance with current student grievance procedures.

The academic appeals procedure may take one of two routes:

- a. **Informal Appeal** — This process must be used first. The student and instructor should attempt to resolve the problem on an informal basis whenever possible. If this fails, the student may meet with the instructor and the department chair to resolve the issue. If the issue is not resolved in the informal process, the student may initiate the formal appeal process.
- b. **Formal Appeal** — A formal appeal must be initiated according to the procedures and timelines listed below:

- Final grade appeals must be initiated by the student within thirty calendar days of the awarding of the grade.
- Denial of program completion/graduation or academic dismissal appeals from any program must be initiated within ten calendar days following the notification to the student.
- The student may initiate a formal appeal by submitting a written statement to the Dean of Instruction describing the exact nature of the complaint and the remedy the student is seeking. This written appeal must be submitted within the specified timelines as noted above.
- The Dean of Instruction will convene an administrative hearing.
- Participants in the administrative hearing will include the student, the instructor, and the Dean of Instruction.
- The student and the instructor may submit written statements by other individuals having information regarding the complaint.
- After the hearing, the Dean of Instruction will review all oral and written statements and reach a decision. Both student and instructor will receive written notification of the decision within ten calendar days after the hearing.

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

Graduation Requirements

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

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

Assessment of Student Learning

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



ACADEMIC TRANSFER PROGRAMS

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

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

The Core Curriculum

The Colorado Community College System has entered into a series of agreements between Colorado's community/junior colleges and Colorado's public four-year colleges and universities on a General Education Core Transfer Program. The agreements ensure access to higher education to students who wish to meet the lower division general education requirements of most baccalaureate degrees at a local community college before continuing at a four-year college or university.

The General Education Core Transfer Program makes it possible for Colorado Northwestern Community College students to complete a core of general education curriculum requirements and be guaranteed transfer credit for these classes at Colorado's public four-year colleges and universities. Each Core course must be completed with a grade of "C" or better. Only courses taken Fall 1988 or after will count toward the Core.

The State Guaranteed General Education Transfer Courses include five areas of study and credits for transfer, as indicated below.

AREAS OF STUDY	ASSOCIATE OF ARTS DEGREE	ASSOCIATE OF SCIENCE DEGREE
Communications	9 Semester Hours	9 Semester Hours
Mathematics	3 Semester Hours	4 Semester Hours
Science	8 Semester Hours	8 Semester Hours
Social and Behavioral Sciences	9 Semester Hours	9 Semester Hours
Arts and Humanities	9 Semester Hours	9 Semester Hours
TOTAL CREDITS	38 Semester Hours	39 Semester Hours

The 60 + 60 Transfer Plan

Students transferring from a two-year school to a four-year school may be entitled to additional guarantees. If students complete an AA or AS degree, 60 credit hours of the degree are guaranteed to transfer to the four-year school, once students are admitted. In addition, students should be able to finish a Bachelor's of Arts or Bachelor's of Science degree within another 60 credit hours. For further information about the 60 + 60 Transfer Plan, visit www.state.co.us/cche/gened/gtpathways/index.pdf.

Statewide articulation agreements prescribe specific general education requirements for the following professional degree programs: business, early childhood, elementary education, engineering, and nursing. Students should check with the school they wish to attend, so that they are clear about which credits will transfer beyond any that are guaranteed by the guaranteed transfer program or a statewide articulation agreement.

State Guaranteed General Education Transfer Courses

ANT 101	Cultural Anthropology (3)	PHI 214	Philosophy of Religion (3)
ANT 111	Physical Anthropology (3)	PHY 105	Conceptual Physics (4)
ART 110	Art Appreciation (3)	PHY 111,112	Physics: Algebra Based I,II (5,5)
ART 111,112	Art History I,II (3,3)	PHY 211,212	Physics: Calculus Based I,II (5,5)
ART 207	Art History 1900 to Present (3)	POS 105	Introduction to Political Science (3)
AST 101,102	Astronomy I,II (4,4)	POS 111	American Government (3)
BIO 105	Science of Biology (4)	POS 205	International Relations (3)
BIO 111,112	General College Biology I,II (5,5)	POS 225	Comparative Government (3)
BIO 201,202	Anatomy & Physiology I,II (4,4)	PSY 101,102	General Psychology I,II (3,3)
BIO 204	Microbiology (4)	PSY 205	Psychology of Gender (3)
CHE 101,102	Introduction to Chemistry I,II (5,5)	PSY 226	Social Psychology (3)
CHE 105	Chemistry in Context (5)	PSY 227	Psychology of Death and Dying (3)
CHE 111,112	General College Chemistry I,II (5,5)	PSY 235	Human Growth and Development (3)
ECO 201,202	Principles of Macro/Micro Economics (3,3)	PSY 238	Child Development (3)
ECO 245	Environmental Economics (3)	RUS 211,212	Russian Language III,IV (3,3)
ENG 121,122	English Composition I,II (3,3)	SCI 155,156	Integrated Science I,II (4,4)
FRE 211,212	French Language III,IV (3,3)	SOC 101,102	Sociology I,II (3,3)
GEO 105	Geography (3)	SOC 215	Contemporary Social Problems (3)
GER 211,212	German Language III,IV (3,3)	SOC 216	Sociology of Gender (3)
GEO 106	Human Geography (3)	SOC 231	Sociology of Deviant Behavior (3)
GEY 111	Physical Geology (4)	SPA 211,212	Spanish Language III,IV (3,3)
GEY 121	Historical Geology (4)	THE 105	Introduction to Theatre Arts (3)
HIS 101,102	Western Civilization I,II (3,3)	THE 211,212	Development of Theatre I,II (3,3)
HIS 111,112	World Civilization I,II (3,3)		
HIS 201,202	U.S. History I,II (3,3)		
HIS 247	Contemporary World History (3)		
HUM 121,122,123	Humanities I, II, III (3,3,3)		
ITA 211,212	Italian Language III,IV (3,3)		
JPN 211,212	Japanese Language III,IV (3,3)		
LIT 115	Introduction to Literature (3)		
LIT 201,202	Masterpieces of Literature I,II (3,3)		
LIT 205	Ethnic Literature (3)		
LIT 211,212	Survey of American Literature I,II (3,3)		
LIT 221,222	Survey of British Literature I,II (3,3)		
MAT 120	Mathematics for Liberal Arts (4)		
MAT 121	College Algebra (4)		
MAT 122	Trigonometry (3)		
MAT 123	Finite Mathematics (4)		
MAT 125	Survey of Calculus (4)		
MAT 135	Introduction to Statistics (3)		
MAT 155,156	Integrated Math I,II (3,3)		
MAT 166	Pre-Calculus (5)		
MAT 201,202,203	Calculus I,II,III (5,5,4)		
MAT 265	Differential Equations (3)		
MET 150	General Meteorology (4)		
MUS 120	Music Appreciation (3)		
MUS 121,122	Introduction to Music History I,II (3,3)		
PHI 111	Introduction to Philosophy (3)		
PHI 112	Ethics (3)		
PHI 113	Logic (3)		
PHI 114	Comparative Religions (3)		

Approved Electives for Associate of Arts Degrees

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

Approved Electives for Associate of Science Degrees

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

Programs of Study

Colorado Northwestern has developed suggested Programs of Study to guide students in a particular major field of study. Students who complete the suggested program will receive an Associate of Arts or Associate of Science degree.

Associate of Arts in Liberal Arts 34

Suggested Programs of Study

Allied Health	35
Art.....	36
Business Administration	37
Education	38
English/Literature	39
History	40
Music.....	41
Physical Education.....	42
Political Science	43
Psychology.....	44
Sociology.....	45

Associate of Science in General Science..... 46

Suggested Programs of Study

Computer Science.....	47
Medical Emphasis	48

CNCC Philosophy of General Education

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

CNCC emphasizes two general education outcomes for every student:

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

ASSOCIATE OF ARTS DEGREES

**ASSOCIATE OF ARTS
LIBERAL ARTS**

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	GENERAL EDUCATION CORE – 38 credits				
9	COMMUNICATIONS				
	English Composition I	ENG 121	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
	**Public Speaking 115 or SPE 125	SPE _____	_____	_____	_____
	(**This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)				
9	ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):				
	ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122;	_____	_____	_____	_____
	THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123;	_____	_____	_____	_____
	LIT 115, 201, 202, 205, 211, 212, 221, 222;	_____	_____	_____	_____
	WAYS OF THINKING: PHI 111, 112, 113, 114, 214				
	FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212				
3	MATHEMATICS (select 3 credits minimum)				
	MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT _____	_____	_____	_____
9	SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):				
	HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106;	HIS _____	_____	_____	_____
	ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245;	_____	_____	_____	_____
	POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS:	_____	_____	_____	_____
	ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238;				
	SOC 101, 102, 215, 216, 231,				
8	PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):				
	AST 101, 102; BIO 105, 111, 112, 201, 202, 204;	_____	_____	_____	_____
	CHE 105, 101, 102, 111, 112; GEY 111, 121; MET 150;	_____	_____	_____	_____
	PHY 105, 111, 112, 211, 212; SCI 155, 156				
22	ELECTIVES – 22 credits				
	ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST BELOW.				
	(The list of approved courses for electives excludes vocational courses and remedial courses)				
	The elective hours may be chosen from the State Guaranteed General Education Transfer courses listed within each applicable degree plan or from any of the following courses:	_____	_____	_____	_____
	ACC (121, 122), ANT, ART, AST, BIO, BUS (115, 216, 217, 226),	_____	_____	_____	_____
	CHE, CIS (118, 124), CNG 160, CRJ (110, 210), CSC, ECO,	_____	_____	_____	_____
	EDU 221, ENG (121 or above), ENV 101, FRE, GEO, GER, GEY,	_____	_____	_____	_____
	GIS 105, HIS, HPR (102, 137, 178, 278, 205, 206, 216, 217),	_____	_____	_____	_____
	HUM, HWE (100, 237), ITA, JOU, JPN, LIT, MAN 226, MAR 216,	_____	_____	_____	_____
	MAT (120 or above), MUS, NRE 102, PED (2 credits maximum),	_____	_____	_____	_____
	PER, PHI, PHO, PHY, POS, PSY, RUS, SOC, SPA, SPE, THE	_____	_____	_____	_____

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF ARTS ALLIED HEALTH PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Intended to meet the requirements for:

	Pre-Radiology	Pre-Physical Therapy Assistant	Pre-Nursing	Pre-Dental
Hygiene				
Required <u>Credits</u>	<u>GENERAL EDUCATION CORE – 38 credits</u>		<u>Course Number</u>	<u>Transfer Credits</u> <u>Credit Hours Completed</u> <u>Grade</u>
9	<u>COMMUNICATIONS</u> English Composition I English Composition II **Public Speaking 115 or SPE 125 (*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)		ENG 121 ENG 122 SPE _____	_____ _____ _____
9	<u>ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):</u> ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202, 205, 211, 212, 221, 222; WAYS OF THINKING: PHI 111, 112, 113, 114, 214 FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212		_____ _____ _____	_____ _____ _____
3	<u>MATHEMATICS (select 3 credits minimum)</u> MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265		MAT _____	_____ _____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):</u> HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245; POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231,		HIS _____ _____ _____	_____ _____ _____
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):</u> AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156		_____ _____	_____ _____
<u>SPECIALIZED COURSE RECOMMENDATIONS – 22 credits</u>				
3	Human Growth & Development		PSY 235	_____ _____
4	Human Anatomy & Physiology I		BIO 201	_____ _____
4	Human Anatomy & Physiology II		BIO 202	_____ _____
4	Microbiology		BIO 204	_____ _____
3	Human Nutrition		HWE 100	_____ _____
4	Elective of choice		_____	_____ _____

AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE

(The list of approved courses for electives **excludes** vocational courses and remedial courses.)

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF ARTS ART

PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	GENERAL EDUCATION CORE – 38 credits	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	COMMUNICATIONS English Composition I English Composition II **Public Speaking 115 or SPE 125 (*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)	ENG 121 ENG 122 SPE ____	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category): ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202, 205, 211, 212, 221, 222; WAYS OF THINKING: PHI 111, 112, 113, 114, 214 FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212	_____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____
3	MATHEMATICS (select 3 credits minimum) MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT ____	_____	_____	_____
9	SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category): HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245; POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231,	HIS ____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____
8	PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category): AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____

SPECIALIZED COURSE RECOMMENDATIONS – Choose 22 credits

3	Art Appreciation	ART 110	_____	_____	_____
3	Art History I	ART 111	_____	_____	_____
3	Art History II	ART 112	_____	_____	_____
3	Ceramics I	ART 161	_____	_____	_____
3	Painting I	ART 211	_____	_____	_____
3	ART 135, 212, or 231,	ART ____	_____	_____	_____
6	FRE 111, 112; HUM 121, 122, 123; LIT 201, 202; MUS 120, 121, 122; PHI 111; RUS 111, 112; SPA 111, 112; THE 105, 211, 212; or other approved foreign lang.	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____

AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE

(The list of approved courses for electives **excludes** vocational courses and remedial courses.)

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT

NAME: _____ **ADVISOR:** _____

**ASSOCIATE OF ARTS
BUSINESS ADMINISTRATION**
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION CORE – 38 credits</u>				
9	<u>COMMUNICATIONS</u>				
	English Composition I	ENG 121	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
	**Public Speaking 115 or SPE 125	SPE _____	_____	_____	_____
	(*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)				
6	<u>ARTS AND HUMANITIES (Select 2 courses)</u>				
	ARTS: ART 110, 111, 112; MUS 120, 121, 122;	_____	_____	_____	_____
	THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123;	_____	_____	_____	_____
	LIT 115, 201, 202; WAYS OF THINKING: PHI 111, 112, 113				
8	<u>MATHEMATICS</u>				
	College Algebra MAT 121 OR Finite Mathematics MAT 123	MAT _____	_____	_____	_____
	Survey of Calculus	MAT 125	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES</u>				
	HIS 101, 102, 201, or 202	HIS _____	_____	_____	_____
	Principles of Macroeconomics	ECO 201	_____	_____	_____
	Principles of Microeconomics	ECO 202	_____	_____	_____
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses)</u>				
	AST 101, 102; BIO 105, 111, 112; CHE 101, 102, 111, 112; GEY 111, 121; PHY 111, 112, 211, 212	_____	_____	_____	_____
	<u>BUSINESS GRADUATION REQUIREMENTS – 20 credits</u>				
4	Accounting Principles I	ACC 121	_____	_____	_____
4	Accounting Principles II	ACC 122	_____	_____	_____
3	Introduction to Business	BUS 115	_____	_____	_____
3	Legal Environment of Business	BUS 216	_____	_____	_____
3	Business Communications & Report Writing	BUS 217	_____	_____	_____
3	Business Statistics	BUS 226	_____	_____	_____

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF ARTS EDUCATION

PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	GENERAL EDUCATION CORE – 38 credits	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	COMMUNICATIONS English Composition I English Composition II **Public Speaking 115 or SPE 125 (*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)	ENG 121 ENG 122 SPE ____	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category): ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202, 205, 211, 212, 221, 222; WAYS OF THINKING: PHI 111, 112, 113, 114, 214 FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
3	MATHEMATICS (select 3 credits minimum) MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT ____	_____	_____	_____
9	SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category): HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245; POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231,	HIS ____	_____ _____ _____	_____ _____ _____	_____ _____ _____
8	PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category): AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156	_____ _____	_____ _____	_____ _____	_____ _____
<u>SPECIALIZED COURSE RECOMMENDATIONS – Choose 22 credits</u>					
3	Introduction to Education	EDU 221	_____	_____	_____
3	Human Growth & Development	PSY 235	_____	_____	_____
3	Educational Psychology	PSY 245	_____	_____	_____
3	U.S. History I	HIS 201	_____	_____	_____
3	Intro to Literature	LIT 115	_____	_____	_____
3	American Literature I	LIT 211	_____	_____	_____
3	American Literature II	LIT 212	_____	_____	_____
3	Women in Literature and Society	LIT 145	_____	_____	_____
3	Popular Literature and Culture	LIT 269	_____	_____	_____
3	ART 110, 111, 112; MUS 120; THE 105	_____ _____	_____ _____	_____ _____	_____ _____
10	Spanish I & II; or Russian I & II; or French I & II; or 2 semesters of 2 nd year language	_____ _____	_____ _____	_____ _____	_____ _____

AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE

(The list of approved courses for electives **excludes** vocational courses and remedial courses.)

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering..)

STUDENT

NAME: _____ **ADVISOR:** _____

ASSOCIATE OF ARTS ENGLISH/LITERATURE

PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	<u>GENERAL EDUCATION CORE – 38 credits</u>	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	<u>COMMUNICATIONS</u> English Composition I English Composition II **Public Speaking 115 or SPE 125 (*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)	ENG 121 ENG 122 SPE _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	<u>ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):</u> ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202, 205, 211, 212, 221, 222; WAYS OF THINKING: PHI 111, 112, 113, 114, 214 FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
3	<u>MATHEMATICS (select 3 credits minimum)</u> MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT _____	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):</u> HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245; POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231,	HIS _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):</u> AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156	_____ _____	_____ _____	_____ _____	_____ _____
<u>SPECIALIZED COURSE RECOMMENDATIONS - Choose 22 credits</u>					
3	Technical Writing I ENG 131 OR Creative Writing ENG 221	ENG _____	_____	_____	_____
3	Introduction to Literature	LIT 115	_____	_____	_____
6	LITERATURE Select two: LIT 145, 201,202, 211, 212, 245, 255	LIT _____	_____	_____	_____
10	Spanish I & II OR Russian I & II OR French I & II	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
3	Select one: HUM 121, 122, 123,163; PHI 114	_____ _____	_____ _____	_____ _____	_____ _____

AND/OR ELECTIVES FROM OTHER ACADEMIC COURSE APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE

(The list of approved courses for electives **excludes** vocational courses and remedial courses.)

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF ARTS HISTORY

PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	GENERAL EDUCATION CORE – 38 credits	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
9	COMMUNICATIONS English Composition I English Composition II **Public Speaking 115 or SPE 125 (*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)	ENG 121 ENG 122 SPE ____	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category): ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202, 205, 211, 212, 221, 222; WAYS OF THINKING: PHI 111, 112, 113, 114, 214 FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
3	MATHEMATICS (select 3 credits minimum) MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT ____	_____	_____	_____
9	SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category): HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245; POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231,	HIS ____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
8	PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category): AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156	_____ _____	_____ _____	_____ _____	_____ _____
<u>SPECIALIZED COURSE RECOMMENDATIONS – Choose 22 credits</u>					
3	History of Western Civilization I	HIS 101	_____	_____	_____
3	History of Western Civilization II	HIS 102	_____	_____	_____
3	U.S. History I	HIS 201	_____	_____	_____
3	U.S. History II	HIS 202	_____	_____	_____
3	American Government	POS 111	_____	_____	_____
3	World Regional Geography	GEO 105	_____	_____	_____
3	Principles of Macroeconomics	ECO 201	_____	_____	_____
3	Select from: HIS 225, 235	HIS ____	_____	_____	_____
<u>AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE</u> (The list of approved courses for electives excludes vocational courses and remedial courses.)					
60	TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT
NAME: _____

ADVISOR: _____

ASSOCIATE OF ARTS
MUSIC
PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	<u>GENERAL EDUCATION CORE – 38 credits</u>	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	<u>COMMUNICATIONS</u> English Composition I English Composition II **Public Speaking 115 or SPE 125 (**This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)	ENG 121 ENG 122 SPE ____	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	<u>ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):</u> ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202, 205, 211, 212, 221, 222; WAYS OF THINKING: PHI 111, 112, 113, 114, 214 FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
3	<u>MATHEMATICS (select 3 credits minimum)</u> MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT ____	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):</u> HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245; POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231,	HIS ____	_____	_____	_____
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):</u> AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156	_____ _____	_____ _____	_____ _____	_____ _____
<u>SPECIALIZED COURSE RECOMMENDATIONS – 22 credits</u>					
3	Music Theory I	MUS 110	_____	_____	_____
3	Music Appreciation	MUS 120	_____	_____	_____
3	Music History I	MUS 121	_____	_____	_____
3	Music History II	MUS 122	_____	_____	_____
2	Performance Class (MUS 131, 132)				
OR					
	Private Instruction (MUS 141, 142)	MUS ____	_____	_____	_____
		MUS ____	_____	_____	_____
2	Ensemble Groups (MUS 151, 152)	MUS ____	_____	_____	_____
		MUS ____	_____	_____	_____
6	THE 105, THE 131, 132; HUM 121, 122, 163, LIT 115, 145, 201,202, or PHI 111,112.	_____ _____	_____ _____	_____ _____	_____ _____
<u>AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE</u>					
(The list of approved courses for electives excludes vocational courses and remedial courses.)					
60	TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT NAME: _____ ADVISOR: _____

ASSOCIATE OF ARTS PHYSICAL EDUCATION

PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION CORE – 38 credits</u>				
9	COMMUNICATIONS				
	English Composition I	ENG 121	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
	**Public Speaking 115 or SPE 125	SPE _____	_____	_____	_____
	(**This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)				
9	<u>ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):</u>				
	ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122;	_____	_____	_____	_____
	THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123;	_____	_____	_____	_____
	LIT 115, 201, 202, 205, 211, 212, 221, 222;	_____	_____	_____	_____
	WAYS OF THINKING: PHI 111, 112, 113, 114, 214				
	FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212				
3	<u>MATHEMATICS (select 3 credits minimum)</u>				
	MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT _____	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):</u>				
	HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106;	HIS _____	_____	_____	_____
	ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245;	_____	_____	_____	_____
	POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS:	_____	_____	_____	_____
	ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238;				
	SOC 101, 102, 215, 216, 231,				
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):</u>				
	AST 101, 102; BIO 105, 111, 112, 201, 202, 204;	_____	_____	_____	_____
	CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150;	_____	_____	_____	_____
	PHY 105, 111, 112, 211, 212; SCI 155, 156				
	<u>SPECIALIZED COURSE RECOMMENDATIONS – 22 credits</u>				
3	Human Nutrition	HWE 100	_____	_____	_____
3	Health and Fitness	HWE 111	_____	_____	_____
2	Introduction to Physical Education and Sport	PER 113	_____	_____	_____
2	Introduction to Coaching	PER 126	_____	_____	_____
3	Social Recreation and Leadership	PER 250	_____	_____	_____
2	Sports Officiating	PER 260	_____	_____	_____
3	Introduction to Education	EDU 221	_____	_____	_____
4	Human Anatomy and Physiology I	BIO 201	_____	_____	_____
	<u>AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE</u>				
	(The list of approved courses for electives excludes vocational courses and remedial courses.)				
60	TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS				
	(State-approved core courses are indicated by bold print. State-approved elective courses are in plain lettering.)				

STUDENT

NAME: _____ ADVISOR: _____

ASSOCIATE OF ARTS POLITICAL SCIENCE

PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	<u>GENERAL EDUCATION CORE – 38 credits</u>	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	<u>COMMUNICATIONS</u> English Composition I English Composition II **Public Speaking 115 or SPE 125 (*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)	ENG 121 ENG 122 SPE _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	<u>ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):</u> ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202, 205, 211, 212, 221, 222; WAYS OF THINKING: PHI 111, 112, 113, 114, 214 FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
3	<u>MATHEMATICS (select 3 credits minimum)</u> MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT _____	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):</u> HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245; POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231,	HIS _____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):</u> AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156	_____ _____	_____ _____	_____ _____	_____ _____
<u>SPECIALIZED COURSE RECOMMENDATIONS– Choose 22 credits</u>					
3	Introduction to Political Science	POS 105	_____	_____	_____
3	American Government	POS 111	_____	_____	_____
3	Select from POS 125, 205	POS _____	_____	_____	_____
3	History of Western Civilization I	HIS 101	_____	_____	_____
3	History of Western Civilization II	HIS 102	_____	_____	_____
3	U.S. History I	HIS 201	_____	_____	_____
3	U.S. History II	HIS 202	_____	_____	_____
3	World Regional Geography	GEO 105	_____	_____	_____
3	Ethics	PHI 112	_____	_____	_____
6	ANT 101, 111; BUS 216; ECO 201, 202; PSY 101, 102; SOC 101, 102, HUM 123; LIT 201	_____ _____	_____ _____	_____ _____	_____ _____

AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE

(The list of approved courses for electives **excludes** vocational courses and remedial courses.)

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF ARTS PSYCHOLOGY

PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION CORE – 38 credits</u>				
9	COMMUNICATIONS				
	English Composition I	ENG 121	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
	**Public Speaking 115 or SPE 125	SPE _____	_____	_____	_____
	(**This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)				
9	<u>ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):</u>				
	ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122;	_____	_____	_____	_____
	THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123;	_____	_____	_____	_____
	LIT 115, 201, 202, 205, 211, 212, 221, 222;	_____	_____	_____	_____
	WAYS OF THINKING: PHI 111, 112, 113, 114, 214				
	FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212				
3	<u>MATHEMATICS (select 3 credits minimum)</u>				
	MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT _____	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):</u>				
	HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106;	HIS _____	_____	_____	_____
	ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245;	_____	_____	_____	_____
	POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS:	_____	_____	_____	_____
	ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238;				
	SOC 101, 102, 215, 216, 231,				
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):</u>				
	AST 101, 102; BIO 105, 111, 112, 201, 202, 204;	_____	_____	_____	_____
	CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150;	_____	_____	_____	_____
	PHY 105, 111, 112, 211, 212; SCI 155, 156				
	<u>SPECIALIZED COURSE RECOMMENDATIONS – 22 credits</u>				
3	General Psychology I	PSY 101	_____	_____	_____
3	General Psychology II	PSY 102	_____	_____	_____
3	Human Growth & Development	PSY 235	_____	_____	_____
3	Select one course from: PSY 215, 217, 245	_____	_____	_____	_____
4	Select one course from: BIO 112, 104, 201; or CHE 109	_____	_____	_____	_____
3	Cultural Anthropology OR	ANT 101	_____	_____	_____
	Introduction to Sociology I	SOC 101	_____	_____	_____
3	Introduction to Philosophy OR	PHI 111	_____	_____	_____
	Ethics	PHI 112	_____	_____	_____
	<u>AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE</u>				
	(The list of approved courses for electives excludes vocational courses and remedial courses.)				
60	TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS				
	(State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT

NAME: _____ ADVISOR: _____

ASSOCIATE OF ARTS SOCIOLOGY

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	<u>GENERAL EDUCATION CORE – 38 credits</u>	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	COMMUNICATIONS English Composition I English Composition II **Public Speaking 115 or SPE 125 (*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)	ENG 121 ENG 122 SPE	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	<u>ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):</u> ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202, 205, 211, 212, 221, 222; WAYS OF THINKING: PHI 111, 112, 113, 114, 214 FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212		_____ _____ _____	_____ _____ _____	_____ _____ _____
3	<u>MATHEMATICS (select 3 credits minimum)</u> MAT 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	MAT	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):</u> HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245; POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231,	HIS	_____	_____	_____
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):</u> AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156		_____ _____	_____ _____	_____ _____
<u>SPECIALIZED COURSE RECOMMENDATIONS – Choose 22 credits</u>					
3	Introduction to Sociology I	SOC 101	_____	_____	_____
3	Introduction to Sociology II	SOC 102	_____	_____	_____
3	Sociology of Family Dynamics	SOC 205	_____	_____	_____
3	Select one course from: LIT 145; SOC 215, 237; **CRJ 220, 230 (check with advisor before taking CRJ classes)		_____	_____	_____
3	Cultural Anthropology	ANT 101	_____	_____	_____
3	General Psychology I	PSY 101	_____	_____	_____
3	General Psychology II	PSY 102	_____	_____	_____
3	Human Growth and Development	PSY 235	_____	_____	_____
3	One course from: POS 105 or POS 111	POS	_____	_____	_____

AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST ON PAGE 33 ABOVE

(The list of approved courses for electives **excludes** vocational courses and remedial courses.)

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF ARTS
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF SCIENCE DEGREES

ASSOCIATE OF SCIENCE GENERAL SCIENCE *PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS*

Required Credits	<u>GENERAL EDUCATION CORE – 39 credits</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
9	COMMUNICATIONS				
	English Composition I	ENG 121	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
	**Public Speaking 115 or SPE 125	SPE _____	_____	_____	_____
	(**This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)				
9	ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):				
	ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122;	_____	_____	_____	_____
	THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123;	_____	_____	_____	_____
	LIT 115, 201, 202, 205, 211, 212, 221, 222;	_____	_____	_____	_____
	WAYS OF THINKING: PHI 111, 112, 113, 114, 214				
	FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212				
3	MATHEMATICS (select 3 credits minimum)				
	MAT 121, 125, 201, 202	MAT _____	_____	_____	_____
9	SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):				
	HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106;	HIS _____	_____	_____	_____
	ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245;	_____	_____	_____	_____
	POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS:	_____	_____	_____	_____
	ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238;				
	SOC 101, 102, 215, 216, 231,				
8	PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):				
	AST 101, 102; BIO 105, 111, 112, 201, 202, 204;	_____	_____	_____	_____
	CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150;	_____	_____	_____	_____
	PHY 105, 111, 112, 211, 212; SCI 155, 156				
21	ELECTIVES – 21 credits				
	ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AS COURSE LIST BELOW				
	(The list of approved courses for electives excludes vocational courses and remedial courses.)				
		_____	_____	_____	_____
		_____	_____	_____	_____
		_____	_____	_____	_____
		_____	_____	_____	_____
		_____	_____	_____	_____
	AST, BIO, CHE, CIS 118 or 124, CSC,	_____	_____	_____	_____
	GEY, MAT (121 or higher),	_____	_____	_____	_____
	PED (2 credits maximum), PHY	_____	_____	_____	_____
		_____	_____	_____	_____
60	TOTAL REQUIRED HOURS FOR ASSOCIATE OF SCIENCE				
	(State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT NAME: _____ ADVISOR: _____

ASSOCIATE OF SCIENCE COMPUTER SCIENCE

PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	<u>GENERAL EDUCATION CORE – 39 credits</u>	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	COMMUNICATIONS English Composition I English Composition II **Public Speaking 115 or SPE 125 (*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)	ENG 121 ENG 122 SPE _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	<u>ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):</u> ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202, 205, 211, 212, 221, 222; WAYS OF THINKING: PHI 111, 112, 113, 114, 214 FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
3	<u>MATHEMATICS (select 3 credits minimum)</u> MAT 121, 125, 201, 202	MAT _____	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):</u> HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245; POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231,	HIS _____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):</u> AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156	_____ _____	_____ _____	_____ _____	_____ _____
<u>SPECIALIZED COURSE RECOMMENDATIONS – Choose 21 credits</u>					
3	Telecommunications I	CNG 160	_____	_____	_____
3	Visual Basic Programming	CSC 150	_____	_____	_____
3	C # Programming	CSC 236	_____	_____	_____
3	Java Programming	CSC 240	_____	_____	_____
3	Advanced Visual Basic Programming	CSC 151	_____	_____	_____
3	Advanced C # Programming	CSC 237	_____	_____	_____
4	Computer Science I	CSC 160	_____	_____	_____
4	Computer Science II	CSC 161	_____	_____	_____
3	Introduction to Statistics	MAT 135	_____	_____	_____

AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AS COURSE LIST ON PAGE 33 ABOVE

(The list of approved courses for electives **excludes** vocational courses and remedial courses.)

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

**ASSOCIATE OF SCIENCE
MEDICAL EMPHASIS**
PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	<u>GENERAL EDUCATION CORE – 39 credits</u>	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	COMMUNICATIONS				
	English Composition I	ENG 121	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
	**Public Speaking 115 or SPE 125	SPE _____	_____	_____	_____
	(**This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)				
9	<u>ARTS AND HUMANITIES (Select 3 courses with no more than 2 courses from any single category):</u>				
	ARTS: ART 110, 111, 112, 207; MUS 120, 121, 122;	_____	_____	_____	_____
	THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123;	_____	_____	_____	_____
	LIT 115, 201, 202, 205, 211, 212, 221, 222;	_____	_____	_____	_____
	WAYS OF THINKING: PHI 111, 112, 113, 114, 214				
	FOREIGN LANGUAGES: FRE/GER/ITA/JPN/RUS/SPA 211, 212				
3	<u>MATHEMATICS (select 3 credits minimum)</u>				
	MAT 121, 125, 201, 202	MAT _____	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must be HIS—with no more than 2 courses from any single category):</u>				
	HIS: HIS 101, 102, 111, 112, 201, 202, 247; GEO: GEO 105, 106;	HIS _____	_____	_____	_____
	ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202, 245;	_____	_____	_____	_____
	POS 105, 111, 205, 225; HUM. BEHAVIOR & SOC. SYSTEMS:	_____	_____	_____	_____
	ANT 101,111; PSY 101, 102, 205, 226, 227, 235, 238;				
	SOC 101, 102, 215, 216, 231,				
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses. Credits over 8 will be applied to the elective category):</u>				
	AST 101, 102; BIO 105, 111, 112, 201, 202, 204;	_____	_____	_____	_____
	CHE 105, 101, 102,111, 112; GEY 111, 121; MET 150;	_____	_____	_____	_____
	PHY 105, 111, 112, 211, 212; SCI 155, 156				
	<u>SPECIALIZED COURSE RECOMMENDATIONS – 21 credits</u>				
5	General College Biology I	BIO 111	_____	_____	_____
5	General College Biology II	BIO 112	_____	_____	_____
5	Physics: Algebra Based I	PHY 111	_____	_____	_____
5	Physics: Algebra Based II	PHY 112	_____	_____	_____
1	Course recommended by Advisor	_____	_____	_____	_____

AND/OR ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AS COURSE LIST ON PAGE 33 ABOVE

(The list of approved courses for electives **excludes** vocational courses and remedial courses.)

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

PROFESSIONAL/TECHNICAL AND INDIVIDUALIZED DEGREE PROGRAMS

GENERAL STUDIES PROGRAMS

The Associate Degree in General Studies is awarded to students who wish to arrange their own program. Guidelines require that a student pursuing an AGS must develop, in consultation with an academic advisor, a written statement of objectives and a plan of studies designed to meet those objectives. This degree can be designed to obtain professional job skills or to transfer to four-year colleges or universities.

This degree includes a basic core of General Education in specific disciplines. In addition, a student can choose elective credits in any academic discipline, area of personal interest, or occupational field.

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

Associate Degree in General Studies 50

Suggested Programs of Study

Aviation Technology.....	51
Criminal Justice.....	52
Fire Science-Wildland	53
Geographic Information Systems.....	54
Human Services.....	55
Marine Science and Oceanography.....	56
Natural Resource Management.....	57

CNCC Philosophy of Career & Technical Education

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

ASSOCIATE OF GENERAL STUDIES DEGREES

**ASSOCIATE DEGREE IN GENERAL STUDIES
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits	GENERAL EDUCATION REQUIREMENTS – 15 credits	Course Number	Transfer Credits	Credit Hours Completed	Grade
3	English Composition I	ENG 121	_____	_____	_____
3	SOCIAL/BEHAVIORAL SCIENCE Requirement satisfied by one of the following: ANT 101, 111; ECO 201, 202, 245; GEO 105, 106; HIS 101, 102, 111, 112, 201, 202, 247; POS 105, 111, 205, 225; PSY 101, 102, 205, 226, 227, 235, 238; SOC 101, 102, 215, 216, 231	_____	_____	_____	_____
3	SCIENCE Requirement satisfied by one of the following: AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 101, 102, 111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156 MATH Requirement satisfied by one of the following: Math 120, 121, 122, 125, 135, 155, 156, 166, 201, 202, 203, 265	_____	_____	_____	_____
3	LITERATURE/HUMANITIES Requirement satisfied by one of the following: ART 110, 111, 112, 207; LIT 115, 201, 202, 205, 211, 212, 221, 222; MUS 120, 121, 122; PHI 111, 112, 113, 114, 214; THE 105, 211, 212; FRE/GER/ITA/JPN/RUS/SPA 211, 212	MAT _____	_____	_____	_____
<u>GENERAL EDUCATION ELECTIVES – 15 credits</u>					
15	Requirement satisfied by any approved General Education elective, selected in consultation with a Counselor or Academic Advisor.	_____	_____	_____	_____
<u>SPECIALTY ELECTIVES – 30 credits</u>					
30	Any approved course. Courses to be selected in consultation with a Counselor or Academic Advisor. CO State guidelines require that any student who pursues an Ass. of Gen. Studies Degree "develop, in consultation with & with the approval of counselors and/or faculty advisors, a written statement of objectives & courses needed to satisfy those objectives." Therefore, to enroll in the Assoc. of Gen. Studies Degree Program, it is necessary for you to meet with a Counselor (where appropriate, refer student to faculty advisor).	_____	_____	_____	_____
60	TOTAL REQUIRED HOURS FOR ASSOCIATE DEGREE IN GENERAL STUDIES (State-approved core courses are indicated by bold print . State-approved courses are in plain lettering.)				

The above list of requirements to complete the Associate Degree in General Studies has been fully explained to me. I understand that it is my responsibility to see that all requirements are fulfilled prior to my expected date of graduation. If the requirements of this major change prior to my graduation, this contract insures that the change will have no effect on me unless I change majors. Required enrollment in learning assistance courses based on my ACCUPLACER scores may extend my program beyond two years. Breaks in enrollment may result in changes in my program requirements.

STUDENT

NAME: _____ **ADVISOR:** _____

**ASSOCIATE DEGREE IN GENERAL STUDIES
AVIATION TECHNOLOGY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION REQUIREMENTS – 22- credits</u>				
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	Principles of Macroeconomics OR Principles of Microeconomics	ECO _____	_____	_____	_____
4	College Algebra	MAT 121	_____	_____	_____
	<u>HUMANITIES</u>				
6	Select from: ART 110, 111, 112; HUM 121, 122, 123; LIT 115, 201, 202; MUS 120, 121, 122; PHI 111, 112, 113; THE 105, 211, 212; Foreign Language 111, 112, 211, 212	_____ _____ _____ _____	_____	_____	_____
	<u>SPECIALIZED COURSE REQUIREMENTS – 30 credits</u>				
4	Private Pilot Ground School	AVT 101	_____	_____	_____
4	Private Pilot Flight	AVT 102	_____	_____	_____
4	Aviation Meteorology	AVT 105	_____	_____	_____
4	Instrument Pilot Ground School	AVT 111	_____	_____	_____
4	Instrument Pilot Flight	AVT 112	_____	_____	_____
2	Commercial Pilot Ground School	AVT 201	_____	_____	_____
3	Commercial Flight I	AVT 202	_____	_____	_____
4	Commercial Flight II	AVT 203	_____	_____	_____
1	Mountain Flying Ground School	AVT 205	_____	_____	_____
	<u>RELATED COURSE REQUIREMENTS – 8 credits</u>				
5	Physics: Algebra Based I	PHY 111	_____	_____	_____
3	Select from HIS 101, 102, 201, 202	HIS _____	_____	_____	_____
60	TOTAL REQUIRED HOURS FOR ASSOCIATE DEGREE IN GENERAL STUDIES (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT NAME: _____ **ADVISOR:** _____

**ASSOCIATE DEGREE IN GENERAL STUDIES
CRIMINAL JUSTICE**
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS - 28</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	MATHEMATICS MAT 121, 135, 201, 202	MAT _____	_____	_____	_____
4	SCIENCE AST 101, 102; BIO 105, 111, 112; CHE 101, 102, 111, 112; GEY 111, 121; PHY 105, 111, 112, 211 212	_____	_____	_____	_____
9	HUMANITIES ART 110, 111, 112; HUM 121, 122, 123; LIT 115, 201, 202; MUS 120, 121, 122; PHI 111, 112, 113; THE 105, 211, 212; FOREIGN LANGUAGE 111, 112, 211, 212	_____	_____	_____	_____
3	Select 1 Course from SPA 101, 111, 115, or ASL 101	_____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 27</u>					
3	Introduction to Criminal Justice	CRJ 110	_____	_____	_____
3	Substantive Criminal Law	CRJ 111	_____	_____	_____
3	Procedural Criminal Law	CRJ 112	_____	_____	_____
3	Law Enforcement Operations	CRJ 125	_____	_____	_____
3	Judicial Function	CRJ 135	_____	_____	_____
3	Correctional Process	CRJ 145	_____	_____	_____
3	Constitutional Law	CRJ 210	_____	_____	_____
3	Human Relations and Social Conflict	CRJ 220	_____	_____	_____
3	Criminology	CRJ 230	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS – 9 credits</u>					
3	General Psychology	PSY 101	_____	_____	_____
3	Introduction to Sociology I	SOC 101	_____	_____	_____
3	American Government	POS 111	_____	_____	_____
64	TOTAL REQUIRED HOURS FOR ASSOCIATE DEGREE IN GENERAL STUDIES (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT

NAME: _____ **ADVISOR:** _____

**ASSOCIATE DEGREE IN GENERAL STUDIES
FIRE SCIENCE – WILDLAND
PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY**

Required Credits	<u>GENERAL EDUCATION REQUIREMENTS – 41 credits</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
9	COMMUNICATIONS English Composition I English Composition II Public Speaking	ENG 121 ENG 122 SPE 115	_____ _____ _____	_____ _____ _____	_____ _____ _____
4	MATHEMATICS MAT 121, 201	MAT _____	_____	_____	_____
10	PHYSICAL AND LIFE SCIENCE BIO 111, 112; CHE 111, 112	_____ _____	_____ _____	_____ _____	_____ _____
9	HUMANITIES ARTS: ART 110, 111, 112; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202; WAYS OF THINKING: PHI 111, 112, 113	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must HIS—with no more than 2 courses from any single category):</u> HIS: HIS 101, 102, 201, 202; GEO: GEO 105; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202; POS 105, 111; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102; SOC 101, 102	HIS _____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
<u>SPECIALIZED COURSE REQUIREMENTS – 19 credits</u>					
3	Introduction to Natural Resources Management	NRE 102	_____	_____	_____
4	Introductory Soil Science	AGY 240	_____	_____	_____
4	General College Ecology	BIO 222	_____	_____	_____
3	Natural Resource Policy and Administration	NRE 260	_____	_____	_____
3	Wildland Firefighting (S-130, S-190)	FST 152	_____	_____	_____
2	Intermediate Fire Behavior	FST 260	_____	_____	_____

60 TOTAL REQUIRED HOURS FOR ASSOCIATE DEGREE IN GENERAL STUDIES
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE DEGREE IN GENERAL STUDIES
GEOGRAPHIC INFORMATION SYSTEMS
PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	<u>GENERAL EDUCATION REQUIREMENTS – 41 Credit Hours</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
9	COMMUNICATIONS English Composition I English Composition II Public Speaking	ENG 121 ENG 122 SPE 115	_____	_____	_____
4	MATHEMATICS MAT 121, 201	MAT ____	_____	_____	_____
10	PHYSICAL AND LIFE SCIENCE BIO 111, 112; CHE 111, 112	_____	_____	_____	_____
9	HUMANITIES ARTS: ART 110, 111, 112; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202; WAYS OF THINKING: PHI 111, 112, 113	_____	_____	_____	_____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must HIS—with no more than 2 courses from any single category):</u> HIS: HIS 101, 102, 201, 202; GEO: GEO 105; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202; POS 105, 111; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102; SOC 101, 102	HIS _____	_____	_____	_____
<u>SPECIALIZED COURSE RECOMMENDATIONS – 19 Credit Hours</u>					
3	Introduction to PC Applications	CIS 118	_____	_____	_____
3	ArcView GIS	GIS 105	_____	_____	_____
3	Global Positioning Systems for GIS	GIS 131	_____	_____	_____
1	Internship	GIS 180	_____	_____	_____
3	GIS Applications	GIS 205	_____	_____	_____
3	Introduction to Natural Resources Management	NRE 102	_____	_____	_____
3	Natural Resource Policy and Administration	NRE 260	_____	_____	_____

60 TOTAL REQUIRED HOURS FOR ASSOCIATE DEGREE IN GENERAL STUDIES
 (State approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE DEGREE IN GENERAL STUDIES HUMAN SERVICES

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION REQUIREMENTS - 24 credits</u>				
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II OR Technical Writing	ENG _____	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	College Algebra OR Introduction to Statistics	MAT _____	_____	_____	_____
3	SCIENCE Select one course from: BIO 105, 111, 112 , 116, 201, 202, 222, ENV 101	_____	_____	_____	_____
3	Introduction to Sociology	SOC 101	_____	_____	_____
3	HUMANITIES Select one course from: HUM 103, 121, 122, 123 , LIT 115, 145, 201, 202 , 211, 212 or PHI 112	_____	_____	_____	_____
3	Select one course from SPA 101, 111, 115; or ASL 101	_____	_____	_____	_____
	<u>SPECIALIZED COURSE REQUIREMENTS - 12 credit hours</u>				
3	General Psychology I	PSY 101	_____	_____	_____
3	General Psychology II	PSY 102	_____	_____	_____
3	Substance Abuse	CRJ 143	_____	_____	_____
3	Contemporary Social Problems (SOC 215) or Human Relations and Social Conflict (CRJ 220)	_____	_____	_____	_____
	<u>RELATED COURSE REQUIREMENTS - 12 credit hours</u>				
3	Introduction to Sociology II	SOC 102	_____	_____	_____
3	Sociology of Family Dynamics	SOC 205	_____	_____	_____
3	Human Growth and Development	PSY 235	_____	_____	_____
3	Abnormal Psychology	PSY 249	_____	_____	_____
	<u>ELECTIVES – Choose 12 credit hours</u>				
3	American Government	POS 111	_____	_____	_____
3	American, State and Local Government	POS 125	_____	_____	_____
3	Human Relations	PSY 106	_____	_____	_____
3	Human Sexuality	PSY 217	_____	_____	_____
3	Child Abuse and Neglect	PSY 247	_____	_____	_____
3	Victimology	CRJ 170	_____	_____	_____
60	TOTAL REQUIRED HOURS FOR ASSOCIATE DEGREE IN GENERAL STUDIES (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT
NAME: _____

ADVISOR: _____

**ASSOCIATE DEGREE IN GENERAL STUDIES
MARINE SCIENCE & OCEANOGRAPHY**
PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY

Required Credits	GENERAL EDUCATION REQUIREMENTS – 41 credits	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	COMMUNICATIONS English Composition I English Composition II Public Speaking	ENG 121 ENG 122 SPE 115	_____ _____ _____	_____ _____ _____	_____ _____ _____
4	MATHEMATICS MAT 121, 201	MAT _____	_____	_____	_____
10	PHYSICAL AND LIFE SCIENCES BIO 111, 112; CHE 111, 112	_____ _____	_____ _____	_____ _____	_____ _____
9	HUMANITIES ARTS: ART 110, 111, 112; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202; WAYS OF THINKING: PHI 111, 112, 113	_____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must HIS—with no more than 2 courses from any single category):</u> HIS: HIS 101, 102, 201, 202; GEO: GEO 105; ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202; POS 105, 111; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102; SOC 101, 102	HIS _____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
<u>SPECIALIZED COURSE REQUIREMENTS – 19 credits</u>					
3	Introduction to Natural Resources Management	NRE 102	_____	_____	_____
4	General College Ecology	BIO 222	_____	_____	_____
3	Natural Resource Policy/Administration	NRE 260	_____	_____	_____
3	General Oceanography	MARS	_____	_____	_____
1	General Oceanography Laboratory (Must be completed elsewhere, e.g., Hawaii Pacific University, & transferred back to CNCC)	MARS LAB	_____	_____	_____
2	Internship or NRE Seminar	BIO 275	_____	_____	_____
3	ArcView GIS	GIS 105	_____	_____	_____

60 TOTAL REQUIRED HOURS FOR ASSOCIATE DEGREE IN GENERAL STUDIES
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

Additional courses that may be taken at Hawaii Pacific University (up to 78 credits transferable) include:
PHY 111, MAT 122, MAT 202, MAT 135, GEY 111

STUDENT NAME: _____ **ADVISOR:** _____

**ASSOCIATE DEGREE IN GENERAL STUDIES
NATURAL RESOURCE MANAGEMENT
PROGRAM WORKSHEET AND SUGGESTED PROGRAM OF STUDY**

Required Credits	<u>GENERAL EDUCATION REQUIREMENTS – 41 credits</u>	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	COMMUNICATIONS English Composition I English Composition II Public Speaking	ENG 121 ENG 122 SPE 115	_____ _____ _____	_____ _____ _____	_____ _____ _____
4	MATHEMATICS MAT 121, 201	MAT ____	_____	_____	_____
10	PHYSICAL AND LIFE SCIENCES BIO 111, 112; CHE 111, 112	_____ _____	_____ _____	_____ _____	_____ _____
9	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 3 courses—one must HIS—with no more than 2 courses from any single category):</u>				
	HIS: HIS 101, 102, 201, 202; GEO: GEO 105;	HIS ____	_____	_____	_____
	ECONOMICS & POLITICAL SYSTEMS: ECO 201, 202;	_____ _____	_____ _____	_____ _____	_____ _____
	POS 105, 111; HUM. BEHAVIOR & SOC. SYSTEMS: ANT 101,111; PSY 101, 102; SOC 101, 102	_____ _____	_____ _____	_____ _____	_____ _____
9	HUMANITIES Ethics ARTS: ART 110, 111, 112; MUS 120, 121, 122; THE 105, 211, 212; LIT/HUM: HUM 121, 122, 123; LIT 115, 201, 202; WAYS OF THINKING: PHI 111, 113	PHI 112 _____ _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
	<u>SPECIALIZED COURSE REQUIREMENTS – 19 credits</u>				
3	Introduction to Natural Resources Management	NRE 102	_____	_____	_____
4	Introductory Soil Science	AGY 240	_____	_____	_____
4	General College Ecology	BIO 222	_____	_____	_____
2	Internship or NRE Seminar	BIO 275	_____	_____	_____
3	Natural Resource Policy and Administration	NRE 260	_____	_____	_____
3	ArcView GIS	GIS 105	_____	_____	_____
60	TOTAL REQUIRED HOURS FOR ASSOCIATE DEGREE IN GENERAL STUDIES (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT
NAME: _____

ADVISOR: _____

OCCUPATIONAL PROGRAMS

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

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

Associate of Applied Science Degrees

Accounting.....	59
Aviation Maintenance Technology.....	60
Aviation Technology.....	61
Construction Technology.....	62
Criminal Justice	
Law Enforcement.....	63
Seasonal Park Ranger.....	64
Dental Hygiene.....	65
Early Childhood Professions.....	66
Emergency Medical Services.....	67
Networking Associate (Cisco Emphasis)....	68
Nursing.....	69
Office Administration	
Administrative Assistant.....	70
Computers in Business.....	71
Legal Administrative Assistant.....	72
Para-Educator.....	73
Power Plant Technology.....	74
Process Technology.....	75
Process Technology—Oil/Gas Emphasis....	76
Small Business Management.....	77
Small Business Management	
Criminal Justice.....	78

Occupational Certificates

Accounting.....	79
Aviation Maintenance Technology.....	80
Aviation Technology.....	81
Certified Flight Instructor.....	82
Certified Instrument Flight Instructor.....	83
Cockpit Resource Management.....	84
Commercial Pilot.....	85
Instrument.....	86
Multi-Engine.....	87
Private Pilot.....	88
Cisco Systems Network Associate.....	89
Construction Technology I.....	90
Construction Technology II.....	91
Cosmetology Occupations	
Cosmetology.....	92
Esthetician/Cosmetician.....	93
Hairstylist.....	94
Nail Technician.....	95
Criminal Justice	
Law Enforcement.....	96
Seasonal Park Ranger.....	97
Early Childhood Professions	
Director.....	98
Group Leader.....	99
Infant and Toddler.....	100
E-Commerce Business.....	101
E-Commerce Technology.....	102
Emergency Medical Services Professional.....	103
Emergency Medical Technology	
Basic.....	104
Intermediate.....	105
Geographic Information Systems.....	106
Nursing Professions	
Nurse Aid.....	107
Practical Nurse.....	108
Office Administration	
Desktop Publishing.....	109
Legal Administrative Assistant.....	110
Office Administration.....	111
Office Management.....	112
Process Technology.....	113
Web Design.....	114

ASSOCIATE OF APPLIED SCIENCE DEGREES

ASSOCIATE OF APPLIED SCIENCE ACCOUNTING PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION COURSES – 15 credits</u>				
	COMMUNICATIONS				
3	English Composition I	ENG 121	_____	_____	_____
3	MATHEMATICS				
	MAT 121 or above	MAT _____	_____	_____	_____
3	SOCIAL AND BEHAVIORAL SCIENCES (satisfied by one)				
	Select one from: Social/Behavioral Science; Humanities; Language; or Natural/Physical/Biological Science	_____	_____	_____	_____
3	Principles of Macroeconomics	ECO 201	_____	_____	_____
3	Principles of Microeconomics	ECO 202	_____	_____	_____
	<u>SPECIALIZED COURSE REQUIREMENTS: 33 credits</u>				
4	Accounting Principles I	ACC 121	_____	_____	_____
4	Accounting Principles II	ACC 122	_____	_____	_____
3	Income Tax	ACC 131	_____	_____	_____
4	Intermediate Accounting I	ACC 211	_____	_____	_____
3	Accounting Information Systems and E-Business	ACC 215	_____	_____	_____
3	Cost Accounting	ACC 226	_____	_____	_____
3	Introduction to Business	BUS 115	_____	_____	_____
3	Legal Environment of Business	BUS 216	_____	_____	_____
3	Business Communications/Report Writing	BUS 217	_____	_____	_____
3	PC Spreadsheet Concepts	CIS 155	_____	_____	_____
	<u>ELECTIVES – Choose 12 credits</u>				
3	Payroll Accounting	ACC 115	_____	_____	_____
3	Computerized Accounting	ACC 125	_____	_____	_____
4	Intermediate Accounting II	ACC 212	_____	_____	_____
3	Governmental and Not-for-profit Accounting	ACC 216	_____	_____	_____
3	Cost Accounting II	ACC 227	_____	_____	_____
3	Business Statistics	BUS 226	_____	_____	_____
3	Introduction to PC Applications	CIS 118	_____	_____	_____
3	Principles of Management	MAN 226	_____	_____	_____
3	Principles of Marketing	MAR 216	_____	_____	_____

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE

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

STUDENT
NAME: _____

ADVISOR: _____

**ASSOCIATE OF APPLIED SCIENCE
AVIATION MAINTENANCE TECHNOLOGY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
GENERAL EDUCATION REQUIREMENTS –15 credits					
3	English Composition I or Technical Writing	ENG _____	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	Small Business Management	MAN 216	_____	_____	_____
6	SOCIAL/BEHAVIORAL SCIENCE (satisfied by two)				
	Principles of Macroeconomics	ECO 201	_____	_____	_____
	American Government	POS 111	_____	_____	_____
	General Psychology I	PSY 101	_____	_____	_____
	Introduction to Sociology I	SOC 101	_____	_____	_____
	Human Relations	PSY 106	_____	_____	_____
CERTIFICATE REQUIRED COURSES – 89 credits					
4	A&P Preparation	AMT 101	_____	_____	_____
4	Basic Electrics	AMT 102	_____	_____	_____
2	Weight & Balance/Ground Handling	AMT 103	_____	_____	_____
3	Regulations & Publications	AMT 104	_____	_____	_____
6	Materials & Processes	AMT 105	_____	_____	_____
2	Corrosion Control & Fluid Lines	AMT 106	_____	_____	_____
2	Wood, Fabric & Finishes	AMT 111	_____	_____	_____
6	Sheet Metal	AMT 112	_____	_____	_____
1	Aircraft Welding	AMT 113	_____	_____	_____
3	Assembly, Rigging & Inspection	AMT 114	_____	_____	_____
2	Composite Construction	AMT 115	_____	_____	_____
3	Hydraulic Systems	AMT 121	_____	_____	_____
4	Aircraft Electrics	AMT 122	_____	_____	_____
2	Instruments & Warning Systems	AMT 123	_____	_____	_____
2	Fuel Systems	AMT 124	_____	_____	_____
3	Miscellaneous Systems	AMT 125	_____	_____	_____
3	Aviation Electronics	AMT 126	_____	_____	_____
3	Landing Gear Systems	AMT 127	_____	_____	_____
4	Reciprocating Engine Theory	AMT 201	_____	_____	_____
3	Reciprocating Fuel Metering & Induction Systems	AMT 202	_____	_____	_____
2	Reciprocating Ignition Systems	AMT 203	_____	_____	_____
4	Reciprocating Engine Maintenance	AMT 205	_____	_____	_____
2	Reciprocating Propeller Systems	AMT 206	_____	_____	_____
2	Engine Electrics & Instrument Systems	AMT 207	_____	_____	_____
4	Turbine Engine Theory	AMT 211	_____	_____	_____
2	Turbine Fuel Systems	AMT 212	_____	_____	_____
3	Miscellaneous Turbine Systems	AMT 213	_____	_____	_____
4	Turbine Engine Maintenance	AMT 215	_____	_____	_____
1	Turbine Propeller Systems	AMT 216	_____	_____	_____
3	Trouble Shooting	AMT 218	_____	_____	_____

104 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT

NAME: _____ **ADVISOR:** _____

**ASSOCIATE OF APPLIED SCIENCE
AVIATION TECHNOLOGY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION REQUIREMENTS – 18 credits</u>				
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
	OR				
	Technical Writing	ENG 131	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
6	Social Behavioral Science (select 6 credit hours)	_____	_____	_____	_____
	ECO 201, 202; PSY 106, 101, 102; SOC 101, 102	_____	_____	_____	_____
3	Math Elective (MAT 100 or above)	MAT _____	_____	_____	_____
	<u>SPECIALIZED REQUIRED COURSES – 45 credits</u>				
4	Private Pilot Ground School	AVT 101	_____	_____	_____
4	Private Pilot Flight	AVT 102	_____	_____	_____
4	Aviation Meteorology	AVT 105	_____	_____	_____
4	Instrument Pilot Ground School	AVT 111	_____	_____	_____
4	Instrument Pilot Flight	AVT 112	_____	_____	_____
2	Commercial Pilot Ground School	AVT 201	_____	_____	_____
3	Commercial Flight I	AVT 202	_____	_____	_____
4	Commercial Flight II	AVT 203	_____	_____	_____
1	Mountain Flying Ground School	AVT 205	_____	_____	_____
1	Crew Resource Management	AVT 206	_____	_____	_____
1	Multi-Engine Ground School	AVT 207	_____	_____	_____
2	Fundamentals of Instruction	AVT 211	_____	_____	_____
2	Flight Instructor Ground School	AVT 212	_____	_____	_____
2	Instrument Instructor Ground School	AVT 221	_____	_____	_____
1	Flight Instructor Flight	AVT 213	_____	_____	_____
	OR				
	Multi-Engine Flight	AVT 208	_____	_____	_____
3	Aircraft Systems for Pilots – Airframe	AMT 140	_____	_____	_____
3	Aircraft Systems for Pilots – Powerplant	AMT 141	_____	_____	_____
	<u>RELATED COURSE REQUIREMENTS – 3 credits</u>				
3	Select from MAN 200, 226, 227; BUS 115, 217	_____	_____	_____	_____
	<u>ELECTIVES – 2 credits</u>				
2	Select from AVT 208, 213, 222, 223, 236, 237	_____	_____	_____	_____
	<u>_____</u>				
68	TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE				
	(State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF APPLIED SCIENCE
CONSTRUCTION TECHNOLOGY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	Contact Hours	GENERAL EDUCATION REQUIREMENTS – 15 CREDITS	Course Number	Transfer Credits	Credit Hours Completed	Grade
3	45	English Composition I (ENG 121) OR Technical Writing	ENG _____	_____	_____	_____
3	45	Public Speaking	SPE 115 _____	_____	_____	_____
3	45	Introduction to PC Applications	CIS 118 _____	_____	_____	_____
3	45	<i>Math Requirement: MAT 106, 107, 120, OR 121</i>	MAT _____	_____	_____	_____
3	45	<i>Choose one course from the following:</i>	_____	_____	_____	_____
		ART 110, 111, 112; MUS 120, 121, 122; THE 105, 211, 212;				
		HUM 121, 122, 123; LIT 115, 201, 202; PHI 111, 112, 113;				
		HIS 101, 102, 201, 202; GEO 105; ECO 201, 202;				
		POS 105, 111; ANT 101,111; PSY 101, 102; SOC 101, 102				
<u>SPECIALIZED COURSE REQUIREMENTS – 48 CREDITS</u>						
1	15	Introduction to Carpentry	CAR 100 _____	_____	_____	_____
1	15	Basic Safety	CAR 101 _____	_____	_____	_____
1	22.5	Hand and Power Tools	CAR 102 _____	_____	_____	_____
1	15	Job Site Layout and Blueprint Reading	CAR 105 _____	_____	_____	_____
1	22.5	Form and Foundation Systems	CAR 115 _____	_____	_____	_____
1	22.5	General Construction Framing	CAR 120 _____	_____	_____	_____
1	22.5	Floor Framing	CAR 121 _____	_____	_____	_____
1	22.5	Wall Framing	CAR 122 _____	_____	_____	_____
1	22.5	Roofing Materials and Methods	CAR 125 _____	_____	_____	_____
1	22.5	Windows and Exterior Doors	CAR 130 _____	_____	_____	_____
1	22.5	Exterior Trim	CAR 131 _____	_____	_____	_____
1	22.5	Thermal and Moisture Methods and Materials	CAR 135 _____	_____	_____	_____
1	22.5	Stair Construction/Layout	CAR 140 _____	_____	_____	_____
1	22.5	Interior Finishes – General	CAR 145 _____	_____	_____	_____
1	22.5	Interior Finishes – Drywall Construction	CAR 146 _____	_____	_____	_____
1	22.5	Interior Trim – General	CAR 150 _____	_____	_____	_____
1	22.5	Interior Trim – Doors and Trim	CAR 151 _____	_____	_____	_____
1	22.5	Interior Trim – Cabinets and Countertops	CAR 153 _____	_____	_____	_____
1	22.5	Floor Finishes	CAR 160 _____	_____	_____	_____
1	30	Clinical: Construction Lab I	CAR 170 _____	_____	_____	_____
1	30	Clinical: Construction Lab I	CAR 171 _____	_____	_____	_____
1	30	Clinical: Construction Lab I	CAR 172 _____	_____	_____	_____
1	30	Clinical: Construction Lab I	CAR 173 _____	_____	_____	_____
1	15	Special Topics: Deed and Land Research	CAR 175 _____	_____	_____	_____
2	45	Advanced Site Layout	CAR 205 _____	_____	_____	_____
1	22.5	Form and Foundation Systems II	CAR 215 _____	_____	_____	_____
1	22.5	Advanced Framing – General	CAR 220 _____	_____	_____	_____
2	45	Advanced Floor Systems	CAR 221 _____	_____	_____	_____
2	45	Advanced Wall Systems	CAR 222 _____	_____	_____	_____
2	45	Advanced Roofing Systems	CAR 223 _____	_____	_____	_____
2	45	Advanced Stair Layout	CAR 240 _____	_____	_____	_____
2	45	Advanced Interior Trim – General	CAR 250 _____	_____	_____	_____
2	45	Advanced Interior Trim – Doors	CAR 251 _____	_____	_____	_____
2	60	Clinical: Construction Lab II	CAR 270 _____	_____	_____	_____
3	90	Clinical: Construction Lab II	CAR 271 _____	_____	_____	_____
3	45	Special Topics in Construction Technology	CAR 275 _____	_____	_____	_____
63	1320	TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE				
		(State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF APPLIED SCIENCE
CRIMINAL JUSTICE – LAW ENFORCEMENT
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 21 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	American Government	POS 111	_____	_____	_____
3	General Psychology I	PSY 101	_____	_____	_____
3	Introduction to Sociology I	SOC 101	_____	_____	_____
3	Select 1 course from SPA 101, 111, 235 or ASL 101	_____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 27 credits</u>					
3	Introduction to Criminal Justice	CRJ 110	_____	_____	_____
3	Substantive Criminal Law	CRJ 111	_____	_____	_____
3	Procedural Criminal Law	CRJ 112	_____	_____	_____
3	Law Enforcement Operations	CRJ 125	_____	_____	_____
3	Correctional Process	CRJ 145	_____	_____	_____
3	Criminal Evidence	CRJ 208	_____	_____	_____
3	Constitutional Law	CRJ 210	_____	_____	_____
3	Community Problem Solving	CRJ 221	_____	_____	_____
3	Criminology	CRJ 230	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS – 37 credits</u>					
6	Basic Law Enforcement Academy I	CRJ 101	_____	_____	_____
12	Basic Law Enforcement Academy II	CRJ 102	_____	_____	_____
8	Basic Law	CRJ 105	_____	_____	_____
3	Arrest Control Techniques	CRJ 106	_____	_____	_____
3	Law Enforcement Driving	CRJ 107	_____	_____	_____
3	Firearms	CRJ 108	_____	_____	_____
1	Physical Training for Law Enforcement	CRJ 175	_____	_____	_____
1	National Park Service	CRJ 275	_____	_____	_____

85 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT
NAME: _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE
CRIMINAL JUSTICE – SEASONAL PARK RANGER
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 21 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	American Government	POS 111	_____	_____	_____
3	General Psychology I	PSY 101	_____	_____	_____
3	Introduction to Sociology I	SOC 101	_____	_____	_____
3	Select 1 course from: SPA 101, 111, or ASL 101	_____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 27 credits</u>					
3	Introduction to Criminal Justice	CRJ 110	_____	_____	_____
3	Substantive Criminal Law	CRJ 111	_____	_____	_____
3	Procedural Criminal Law	CRJ 112	_____	_____	_____
3	Law Enforcement Operations	CRJ 125	_____	_____	_____
3	Criminal Evidence	CRJ 208	_____	_____	_____
3	Correctional Process	CRJ 145	_____	_____	_____
3	Constitutional Law	CRJ 210	_____	_____	_____
3	Community Problem Solving	CRJ 221	_____	_____	_____
3	Criminology	CRJ 230	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS - 17 credits</u>					
6	Basic Law Enforcement Academy I	CRJ 101	_____	_____	_____
3	Arrest Control Techniques	CRJ 106	_____	_____	_____
3	Law Enforcement Driving	CRJ 107	_____	_____	_____
3	Firearms	CRJ 108	_____	_____	_____
1	Physical Training for Law Enforcement	CRJ 175	_____	_____	_____
1	National Park Service	CRJ 275	_____	_____	_____

65 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT

NAME: _____ **ADVISOR:** _____

ASSOCIATE OF APPLIED SCIENCE
DENTAL HYGIENE
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

PREREQUISITES:		
BIO 201 Human Anatomy and Physiology I (4)	**CHE 101 Introduction to Chemistry I (5)	ENG 121 English Composition I (3)
BIO 202 Human Anatomy and Physiology II (4)	**CHE 102 Introduction to Chemistry II (5)	HWE 100 Human Nutrition (3)
BIO 204 Microbiology (4)	*CHE 109 General, Organic, & Biochemistry (4)	

*CHE 109, General, Organic and Biochemistry, will be accepted in lieu of CHE 101 and CHE 102.

**Most schools require a year of high school chemistry or CHE 101, Introduction to Chemistry I, as a prerequisite to CHE 102, Introduction to Chemistry II.

Required Credits	GENERAL EDUCATION REQUIREMENTS – 15 credits	Course Number	Transfer Credits	Credit Hours Completed	Grade
3	Computer Applications in DH	CIS 175	_____	_____	_____
2	Practice Management	BUS 175	_____	_____	_____
1	Current Issues and Ethics in DH	PHI 121	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	General Psychology I	PSY 101	_____	_____	_____
3	Introduction to Sociology I	SOC 101	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 63 credits</u>					
3	Pre-clinical Dental Hygiene Lecture/Supplemental Lecture	DEH 101/175	_____	_____	_____
3	Pre-clinical Dental Hygiene Care	DEH 102	_____	_____	_____
3	Dental Anatomy & Histology	DEH 103	_____	_____	_____
3	Dental Radiology	DEH 104	_____	_____	_____
2	Dental & Medical Emergencies	DEH 111	_____	_____	_____
2	Dental Hygiene Clinic Lecture	DEH 112	_____	_____	_____
3	Periodontics I/Immunology Aspects of Perio Disease	DEH 122/175	_____	_____	_____
2	Head & Neck Anatomy/Head & Neck Lab	DEH 123/175	_____	_____	_____
3	Clinical Practice of Dental Hygiene I	DEH 124	_____	_____	_____
3	Clinical Practice of Dental Hygiene I-A	DEH 125	_____	_____	_____
2	Dental Materials	DEH 126	_____	_____	_____
3	Applied Pharmacology/Dental Application of Applied Pharm	DEH 132/175	_____	_____	_____
2	Local Anesthesia	DEH 133	_____	_____	_____
1	Nitrous Oxide/Oxygen Sedation	DEH 138	_____	_____	_____
2	Clinic II Lecture	DEH 201	_____	_____	_____
2	Community Dental Health I	DEH 204	_____	_____	_____
3	General & Oral Pathology	DEH 213	_____	_____	_____
1	Community Dental Health: Field Experience	DEH 225	_____	_____	_____
2	Periodontics II	DEH 242	_____	_____	_____
7	Clinical Practice of Dental Hygiene II	DEH 264	_____	_____	_____
2	Oral Health Promotion/Disease Prevention	DEH 275	_____	_____	_____
2	Advanced Clinical Skills	DEH 275	_____	_____	_____
7	Clinical Practice of Dental Hygiene III	DEH 284	_____	_____	_____
<u>SUGGESTED OPTIONAL COURSES</u>					
1	Introduction to Dental Hygiene	DEH 175	_____	_____	_____
2	National Boards Review	DEH 266	_____	_____	_____
1-6	Special Topics	DEH 275	_____	_____	_____

78 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE

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

**STUDENT
NAME:** _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE EARLY CHILDHOOD PROFESSIONS PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Credit Hours</u>	<u>Course Name</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Completed Credits</u>	<u>Grade</u>
<u>GENERAL EDUCATION REQUIREMENTS – 19 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
4	Survey of Algebra <i>or above</i>	MAT 106	_____	_____	_____
3	General Psychology I	PSY 101	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	Introduction to Sociology I	SOC 101	_____	_____	_____
3	Sociology of Family Dynamics	SOC 205	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 33 credits</u>					
3	Introduction to Early Childhood Education	ECE 101	_____	_____	_____
3	Introduction to Early Childhood Lab Techniques	ECE 102	_____	_____	_____
3	Guidance Strategies for Children	ECE 103	_____	_____	_____
3	Infant and Toddler Theory and Practice	ECE 111	_____	_____	_____
3	Introduction to Infant and Toddler Lab Techniques	ECE 112	_____	_____	_____
3	Nutrition, Health and Safety	ECE 205	_____	_____	_____
3	Curriculum Development: Methods and Techniques	ECE 220	_____	_____	_____
3	Administration of Early Childhood Care and Education Programs	ECE 240	_____	_____	_____
3	Administration: Human Relations for Early Childhood Education	ECE 241	_____	_____	_____
3	Exceptional Child	ECE 260	_____	_____	_____
3	Child Development	PSY 238	_____	_____	_____
<u>ELECTIVES – 10 credits</u> (Select courses from the following:)					
4	Accounting Principles I	ACC 121	_____	_____	_____
3	Word Processing Techniques I	BTE 155	_____	_____	_____
3	Business Communication and Report Writing	BUS 217	_____	_____	_____
3	Introduction to PC Applications	CIS 118	_____	_____	_____
3	Introduction to Operating Systems	CIS 124	_____	_____	_____
3	PC Spreadsheet Concepts: Excel	CIS 155	_____	_____	_____
1	Pre-licensing Training for Family Child Care Providers	ECE 100	_____	_____	_____
2	Art and the Young Child	ECE 126	_____	_____	_____
1	Music/Movement for the Young Child	ECE 127	_____	_____	_____
3	School Age Theory and Practice	ECE 191	_____	_____	_____
3	School Age Lab Techniques	ECE 192	_____	_____	_____
3	Language and Cognition for the Young Child	ECE 225	_____	_____	_____
3	Creativity and the Young Child	ECE 226	_____	_____	_____
3	Practicum: Early Childhood Education	ECE 288	_____	_____	_____
3	Special Topics:	ECE ____	_____	_____	_____
				ECE ____	_____
		ECE ____	_____	_____	_____

62 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF APPLIED SCIENCE EMERGENCY MEDICAL SERVICES PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Credit Hours	Course Name	Course Number	Transfer Credit	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 18 Credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	_____	_____	_____	_____
	OR				
	Technical Writing (ENG 131)				
3	<i>Math requirement:</i> (MAT 106 or higher)	MAT _____	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
	<i>Social Behavioral Science:</i>				
3	General Psychology I (PSY 101 or higher)	PSY _____	_____	_____	_____
3	Introduction to Sociology I (SOC 101 or higher)	SOC _____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 28 Credits</u>					
9	EMT Basic*	EMS 125	_____	_____	_____
1	EMT Basic Clinical	EMS 170	_____	_____	_____
2	EMT Intravenous Therapy	EMS 130	_____	_____	_____
6	EMT Intermediate I	EMS 203	_____	_____	_____
6	EMT Intermediate II	EMS 205	_____	_____	_____
3	EMT Intermediate Clinical	EMS 270	_____	_____	_____
1	ACLS	HPR 120	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS – 3 Credits</u>					
3	<i>Select course(s) from: CIS or BTE</i>	_____	_____	_____	_____
<u>ELECTIVES – Choose 11 Credits</u>					
	<i>Select courses from:</i>				
	ACC; BIO; BUS 115, 216, 217; CHE; CRJ;	_____	_____	_____	_____
	ECO 201, 202; EDU; EMS 150, 213, 214;	_____	_____	_____	_____
	EMS 175 (<i>maximum 3 credits</i>); FST; GIS;	_____	_____	_____	_____
	HPR 102*, 130, 190; HWE 104; MAN; MAT;	_____	_____	_____	_____
	PED (<i>maximum 2 credits</i>); PSY; SOC; SPA;	_____	_____	_____	_____
		_____	_____	_____	_____

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

CPR for Professionals: Students must provide proof of current certification through transcripts or possession of current certification card

This course of study has been designed to allow the student to self-select courses in a selected career path if so desired: Management, Education, Public Safety (Fire, Law Enforcement) or preparation for EMT Paramedic.

STUDENT NAME: _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE
NETWORKING ASSOCIATE OPTION (Emphasis CISCO)
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	Courses	Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 18 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
	OR				
	Technical Writing	ENG 131	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	College Algebra (or higher)	MAT _____	_____	_____	_____
3	SCIENCE OR MATH (Choose one)	_____	_____	_____	_____
	AST 101, 102; BIO 111, 112; CHE 111, 112;				
	GEY 111, 121; PHY 111, 112, 211, 212;				
	MAT 122, 135, 201, 202 (or Electronics equivalent)				
3	SOCIAL/BEHAVIORAL SCIENCE	_____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – (20 credits for CISCO Network Associate)</u> (See specialized networking system requirements)					
5	Cisco Network Associate I	CNG 260	_____	_____	_____
5	Cisco Network Associate II	CNG 261	_____	_____	_____
5	Cisco Network Associate III	CNG 262	_____	_____	_____
5	Cisco Network Associate IV	CNG 263	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS – 6 credits</u>					
4	Computer Science I (Visual C++)	CSC 160	_____	_____	_____
	OR				
3	Visual Basic Programming	CSC 150	_____	_____	_____
3	Local Area Networks	CNG 102	_____	_____	_____
<u>ELECTIVES - Select courses to bring total to 63 credits</u>					
2	Windows Complete	CIS 128	_____	_____	_____
1	Introduction to the Internet	CIS 130	_____	_____	_____
3	Complete PC Database	CIS 145	_____	_____	_____
3	Database Design and Development	CIS 240	_____	_____	_____
3	Management of Computer Information Systems	CIS 267	_____	_____	_____
3	Systems Analysis and Design	CIS 268	_____	_____	_____
4	A+ Certification Preparation	CNG 120	_____	_____	_____
5	IT Essentials II: Network Operating Systems	CNG 128	_____	_____	_____
3	Telecommunications I	CNG 160	_____	_____	_____
3	Advanced Visual Basic Programming	CSC 151	_____	_____	_____
3	Java Internet Programming	CSC 248	_____	_____	_____

63 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT

NAME: _____ **ADVISOR:** _____

ASSOCIATE OF APPLIED SCIENCE NURSING

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS*

***COMPLETION OF PRACTICAL NURSING CERTIFICATE CREDITS IN ESCROW – 30 credit hours**

(Practical nurses articulating to the associate degree level are awarded or transfer in nursing credits equivalent to approximately one (1) year of full-time nursing courses – 30 credit hours.)

***Practical Nurse Licensing by the Colorado Board of Nursing is required before admission to Specialized Second-Year Nursing Courses.**

<u>Required Credits</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>PREREQUISITE COURSES – 18 credits</u>				
3	English Composition I	ENG 121	_____	_____
4	Human Anatomy and Physiology I	BIO 201	_____	_____
4	Human Anatomy and Physiology II	BIO 202	_____	_____
3	Human Growth and Development	PSY 235	_____	_____
4	Microbiology	BIO 204	_____	_____
<u>FIRST YEAR/FIRST SEMESTER – 14 credits</u>				
8	Fundamentals of Nursing	NUR 109	_____	_____
2	Basic Concepts of Phramacology	NUR 112	_____	_____
1	Dietary Nutrition	HPR 108	_____	_____
3	Math for Clinical Calculations	MAT 103	_____	_____
<u>FIRST YEAR/SECOND SEMESTER – 20 credits</u>				
9	Medical and Surgical Nursing Concepts	NUR 106	_____	_____
7	Obstetric and Pediatric Nursing	NUR 150	_____	_____
4	Pathophysiology	HPR 216	_____	_____
<u>SECOND YEAR/FIRST SEMESTER – 14 credits</u>				
(4)	Transition from LPN to ADN (for LPN’s only)	NUR 199	_____	_____
8	Advanced Concepts of Medical-Surgical Nursing I	NUR 206	_____	_____
4	Nursing Care of Psychiatric Clients	NUR 211	_____	_____
2	Pharmacology II	NUR 212	_____	_____
<u>SECOND YEAR/SECOND SEMESTER – 14 credits</u>				
6	Advanced Concepts of Medical-Surgical Nursing II	NUR 216	_____	_____
5	Leadership, Management, and Trends	NUR 230	_____	_____
3	Elective*	_____	_____	_____

80 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

OPTIONAL COURSE TO RECEIVE CERTIFICATE OF PRACTICAL NURSING (Between First and Second Years):

5	Transition Into Practical Nursing	NUR 169	_____	_____	_____
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STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF APPLIED SCIENCE
OFFICE ADMINISTRATION - ADMINISTRATIVE ASSISTANT
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION COURSES – 12 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	Technical Writing -or- English Composition II	ENG 131 ENG 122	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	Social/Behavioral Science (satisfied by one) Select one: ECO 201, ECO 202, POS 111, PSY 106, PSY 101, or SOC 101	_____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 43 credits</u>					
4	Accounting Principles I	ACC 121	_____	_____	_____
3	Keyboarding Applications II	BTE 103	_____	_____	_____
3	Business Editing Skills	BTE 166	_____	_____	_____
3	Administrative Office Management	BTE 225	_____	_____	_____
3	Machine Transcription	BTE 226	_____	_____	_____
3	Legal Environment of Business	BUS 216	_____	_____	_____
3	Cooperative Education/Internship	BUS 187	_____	_____	_____
3	Introduction to Operating Systems - OR- Windows Complete	CIS 124 CIS 128	_____	_____	_____
3	Word Processing Techniques I	BTE 155	_____	_____	_____
3	Word Processing Techniques II	BTE 255	_____	_____	_____
3	Complete Presentation Graphics: PowerPoint	CIS 165	_____	_____	_____
3	Desktop Publishing	CIS 167	_____	_____	_____
3	Complete PC Database	CIS 145	_____	_____	_____
3	PC Spreadsheet Concepts	CIS 155	_____	_____	_____
<u>RELATED REQUIREMENTS – 10 credits</u>					
4	Business Mathematics with Calculators - OR- Math 100 or Higher	BTE 156 MAT _____	_____	_____	_____
3	Business Communications/Report Writing	BUS 217	_____	_____	_____
3	Principles of Management - OR- Small Business Management I	MAN 226 MAN 216	_____	_____	_____
<u>ELECTIVES – 3 credits</u>					
3	Select 3 Credit Hours from: ACC; BTE; BUS; CIS; CSC	_____ _____	_____	_____	_____

68 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT
NAME: _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE OFFICE ADMINISTRATION - COMPUTERS IN BUSINESS PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	<u>GENERAL EDUCATION COURSES – 12 credits</u>	Course Number	Transfer Credits	Credit Hours Completed	Grade
3	English Composition I	ENG 121	_____	_____	_____
3	Technical Writing OR	ENG 131	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	Social/Behavioral Science (choose one)				
	Principles of Macroeconomics	ECO 201	_____	_____	_____
	Principles of Microeconomics	ECO 202	_____	_____	_____
	American Government	POS 111	_____	_____	_____
	Human Relations	PSY 106	_____	_____	_____
	General Psychology I	PSY 101	_____	_____	_____
	Introduction to Sociology I	SOC 101	_____	_____	_____
	<u>SPECIALTY REQUIREMENTS – 35 credits</u>				
4	Accounting Principles I	ACC 121	_____	_____	_____
3	Introduction to Operating Systems OR	CIS 124	_____	_____	_____
	Windows Complete	CIS 128	_____	_____	_____
3	Word Processing Techniques I	BTE 155	_____	_____	_____
3	Word Processing Techniques II	BTE 255	_____	_____	_____
1	Introduction to the Internet	CIS 130	_____	_____	_____
3	Complete Presentations Graphics: Power Point	CIS 165	_____	_____	_____
3	Complete PC Database	CIS 145	_____	_____	_____
3	PC Spreadsheet Concepts	CIS 155	_____	_____	_____
3	Select one from the following courses:				
	Visual Basic Programming	CSC 150	_____	_____	_____
	Computer Science I (Visual C++)	CSC 160	_____	_____	_____
	Java Programming	CSC 240	_____	_____	_____
9	Select three from the following courses:				
	Keyboarding Applications II	BTE 103	_____	_____	_____
	Desktop Publishing	CIS 167	_____	_____	_____
	Computer Aided Drafting I	CAD 101	_____	_____	_____
	Mastering the Web	CWB 106	_____	_____	_____
	Telecommunications I	CNG 160	_____	_____	_____
	<u>RELATED REQUIREMENTS – 10 credits</u>				
4	Business Mathematics with Calculators OR	BTE 156	_____	_____	_____
	MAT 100 or higher	MAT ____	_____	_____	_____
3	Business Editing Skills	BTE 166	_____	_____	_____
3	Principles of Management OR	MAN 226	_____	_____	_____
	Small Business Management	MAN 216	_____	_____	_____
9	<u>ELECTIVES – 9 credits</u>				
	Select three courses from:				
	ACC; BTE; BUS; CIS; CSC	____	_____	_____	_____
		____	_____	_____	_____
		____	_____	_____	_____
66	TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE				
	(State -approved core courses are indicated by bold print . State-approved elective courses are in plain lettering)				

STUDENT
NAME: _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE
OFFICE ADMINISTRATION – LEGAL ADMINISTRATIVE ASSISTANT
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	GENERAL EDUCATION COURSES – 12 credits	Course Number	Transfer Credits	Credit Hours Completed	Grade
3	English Composition I	ENG 121	_____	_____	_____
3	Technical Writing OR	ENG 131	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	Social/Behavioral Science (satisfied by one)				
	Select one: ECO 201, ECO 202, POS 111,				
	PSY 106, PSY 101, or SOC 101	_____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 38 credits</u>					
4	Accounting Principles I	ACC 121	_____	_____	_____
3	Keyboarding Applications II	BTE 103	_____	_____	_____
1	Legal Terminology	BTE 128	_____	_____	_____
3	Machine Transcription	BTE 226	_____	_____	_____
3	Administrative Office Management	BTE 225	_____	_____	_____
3	Legal Transcription	BTE 229	_____	_____	_____
3	Legal Environment of Business	BUS 216	_____	_____	_____
3	Cooperative Education/Internship	BUS 187	_____	_____	_____
3	Introduction to Operating Systems -OR-	CIS 124	_____	_____	_____
	Windows Complete	CIS 128	_____	_____	_____
3	Word Processing Techniques I	BTE 155	_____	_____	_____
3	Word Processing Techniques II	BTE 255	_____	_____	_____
3	Complete PC Database	CIS 145	_____	_____	_____
3	PC Spreadsheet Concepts	CIS 155	_____	_____	_____
<u>RELATED REQUIREMENTS – 10 credits</u>					
4	Business Mathematics with Calculators -OR-	BTE 156	_____	_____	_____
	Math 100 or Higher	MAT _____	_____	_____	_____
3	Business Communications/Report Writing -OR-	BUS 217	_____	_____	_____
	Business Editing Skills	BTE 166	_____	_____	_____
3	Principles of Management -OR-	MAN 226	_____	_____	_____
	Small Business Management I	MAN 216	_____	_____	_____
<u>ELECTIVES – 3 credits</u>					
Select 3 credits from:					
	ACC, BTE, BUS, CIS, CRJ 111, CRJ 112, PAR	_____	_____	_____	_____
63	TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE				
	(State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering)				

STUDENT NAME: _____ **ADVISOR:** _____

ASSOCIATE OF APPLIED SCIENCE PARA-EDUCATOR PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Credit Hours</u>		<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>GENERAL EDUCATION REQUIREMENTS – 15 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	Career Math (MAT 107) or above	MAT _____	_____	_____	_____
3	General Psychology I	PSY 101	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
Select one course from the following:					
4	Science of Biology	BIO 105	_____	_____	_____
4	Introduction to Environmental Science	ENV 101	_____	_____	_____
3	World Regional Geography	GEO 105	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS - 27 credits</u>					
2	Child Study	ECE 104	_____	_____	_____
	<i>OR</i>				
3	Child Development	PSY 238	_____	_____	_____
3	Nutrition, Health and Safety	ECE 205	_____	_____	_____
3	The Exceptional Child	ECE 260	_____	_____	_____
3	Student Behavior Management for Para educators	EDU 114	_____	_____	_____
3	Basic Instructional Techniques for Para educators	EDU 141	_____	_____	_____
3	Introduction to Education	EDU 221	_____	_____	_____
3	Human Relations	PSY 106	_____	_____	_____
3	Human Growth and Development	PSY 235	_____	_____	_____
3	Educational Psychology	PSY 245	_____	_____	_____
1	Community First Aid & CPR	HWE 103	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS –10 credits</u>					
3	Introduction to PC Applications	CIS 118	_____	_____	_____
1	Physical Education	PED _____	_____	_____	_____
3	Child and Adolescent Psychology	PSY 237	_____	_____	_____
3	Conversational Spanish I	SPA 101	_____	_____	_____
8	<u>ELECTIVES – 8 Credits</u>				
Select courses from the following to bring the total credit hours to 60:					
	ACC (121, 122), ANT, ART, ASL (121, 122), AST,	_____	_____	_____	_____
	BIO, BTE 155, BUS (115, 216, 217), CHE, CIS 124,	_____	_____	_____	_____
	CSC, ECO, EDU, ENG (121 or above), FRE, GEO,	_____	_____	_____	_____
	GEY, HIS, HUM, JOU, LIT, MAN 226, MAR 216,	_____	_____	_____	_____
	MAT (121 or above) MUS, PED, PHI, PHY, POS,	_____	_____	_____	_____
	PSY, RUS, SOC, SPA, SPE, or THE.	_____	_____	_____	_____
60	TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE				
	(State approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT
NAME: _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE
POWER PLANT TECHNOLOGY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>		<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>GENERAL EDUCATION REQUIREMENTS – 17 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	Human Relations	PSY 106	_____	_____	_____
4	College Algebra	MAT 121	_____	_____	_____
4	Conceptual Physics	PHY 105	_____	_____	_____
3	Technical Writing	ENG 131	_____	_____	_____
<u>GENERAL COURSE REQUIREMENTS – 15 credits</u>					
3	Introduction to PC Applications	CIS 118	_____	_____	_____
3	Safety, Health and Environment	PRO 110	_____	_____	_____
4	Basics of AC/DC Electricity	EIC 105	_____	_____	_____
3	Print Reading for Manufacturing	ENT 106	_____	_____	_____
2	Water and Wastewater Treatment	ENT 250	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 33 credits</u>					
2	Basic Electricity	PPT 100	_____	_____	_____
2	Basic Plant Operations	PPT 105	_____	_____	_____
2	Plant Systems	PPT 110	_____	_____	_____
3	Plant Auxiliaries	PPT 112	_____	_____	_____
3	Plant Instrumentation (<i>optional</i>)	PPT 115	_____	_____	_____
3	Instrumentation and Control	PPT 116	_____	_____	_____
0.5-6	Special Topics	PPT 175	_____	_____	_____
0.5-6	Internship	PPT 180	_____	_____	_____
4	Power Plant Protection	PPT 200	_____	_____	_____
4	Plant Protection - Electrical	PPT 201	_____	_____	_____
3	Power Plant Thermodynamics	PPT 205	_____	_____	_____
3	Steam Turbines	PPT 210	_____	_____	_____
3	Power Generation	PPT 215	_____	_____	_____
2	Environmental Protection	PPT 220	_____	_____	_____
0.5-6	Special Topics	PPT 275	_____	_____	_____
0.5-6	Internship	PPT 280	_____	_____	_____

65 TOTAL REQUIRED CREDIT HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT

NAME: _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE PROCESS TECHNOLOGY PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>		<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>GENERAL EDUCATION REQUIREMENTS – 19 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
5	Chemistry 101 or above	CHE 101	_____	_____	_____
3	Intro to PC Applications	CIS 118	_____	_____	_____
4	Conceptual Physics	PHY 105	_____	_____	_____
4	Survey of Algebra	MAT 106	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 25 credits</u>					
3	Introduction to Process Technology	PRO 100	_____	_____	_____
3	Safety, Health, and Environment	PRO 110	_____	_____	_____
4	Process Technology I: Equipment	PRO 120	_____	_____	_____
3	Instrumentation I	PRO 130	_____	_____	_____
4	Process Technology II: Systems	PRO 210	_____	_____	_____
4	Process Technology III: Operations	PRO 220	_____	_____	_____
3	ArcView GIS	GIS 105	_____	_____	_____
1	Workplace Communication	COM 100	_____	_____	_____
<u>ELECTIVES – Choose 16 credits</u>					
Select courses from the following:					
3	Instrumentation II	PRO 131	_____	_____	_____
3	Quality in Process Technology	PRO 230	_____	_____	_____
4	Process Troubleshooting	PRO 240	_____	_____	_____
3	Oil & Gas Production I	PRO 250	_____	_____	_____
3	Oil & Gas Production II	PRO 255	_____	_____	_____
2	Process Technology Internship	PRO 280	_____	_____	_____
3	GPS for Geographic Information Systems	GIS 131	_____	_____	_____

60 TOTAL REQUIRED CREDIT HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE
PROCESS TECHNOLOGY—OIL AND GAS EMPHASIS
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>		<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>GENERAL EDUCATION REQUIREMENTS – 19 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
4-5	Chemistry 101 or Physical Geology (GEY 111)	_____	_____	_____	_____
3	Intro to PC Applications	CIS 118	_____	_____	_____
4	Conceptual Physics	PHY 105	_____	_____	_____
4	Survey of Algebra	MAT 106	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 31 credits</u>					
3	Introduction to Process Technology	PRO 100	_____	_____	_____
3	Safety, Health, and Environment	PRO 110	_____	_____	_____
4	Process Technology I: Equipment	PRO 120	_____	_____	_____
3	Instrumentation I	PRO 130	_____	_____	_____
4	Process Technology II: Systems	PRO 210	_____	_____	_____
4	Process Technology III: Operations	PRO 220	_____	_____	_____
3	Oil & Gas Production I	PRO 250	_____	_____	_____
3	Oil & Gas Production II	PRO 255	_____	_____	_____
3	ArcView GIS	GIS 105	_____	_____	_____
1	Workplace Communication	COM 100	_____	_____	_____
<u>ELECTIVES – Choose 10 – 11 credits (depending on CHE 101 or GEY 111 option)</u>					
Select courses from the following:					
3	Instrumentation II	PRO 131	_____	_____	_____
3	Quality in Process Technology	PRO 230	_____	_____	_____
4	Process Troubleshooting	PRO 240	_____	_____	_____
2	Process Technology Internship	PRO 280	_____	_____	_____
3	GPS for Geographic Information Systems	GIS 131	_____	_____	_____

60 TOTAL REQUIRED CREDIT HOURS FOR ASSOCIATE OF APPLIED SCIENCE
 (State approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT
NAME: _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE SMALL BUSINESS MANAGEMENT PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION REQUIREMENTS – 28 credits</u>				
3	English Composition II	ENG 122	_____	_____	_____
	OR				
	Technical Writing I	ENG 131	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
4	Math Elective (MAT 106 or above)	MAT _____	_____	_____	_____
3	Principles of Macroeconomics	ECO 201	_____	_____	_____
3	Principles of Microeconomics	ECO 202	_____	_____	_____
3	American Government	POS 111	_____	_____	_____
3	General Psychology I	PSY 101	_____	_____	_____
3	Introduction to Sociology I	SOC 101	_____	_____	_____
	<u>SPECIALIZED COURSE REQUIREMENTS – 26 credits</u>				
4	Accounting Principles I	ACC 121	_____	_____	_____
4	Accounting Principles II	ACC 122	_____	_____	_____
3	Legal Environment of Business	BUS 216	_____	_____	_____
3	Human Resource Management I	MAN 200	_____	_____	_____
3	Word Processing Techniques I	BTE 155	_____	_____	_____
3	PC Spreadsheet Concepts: Excel	CIS 155	_____	_____	_____
3	Principles of Marketing	MAR 216	_____	_____	_____
3	Small Business Management	MAN 216	_____	_____	_____
	OR				
	<i>Three credits from the following:</i>				
	Starting a Small Business	SBM 101	_____	_____	_____
	Recordkeeping for a Small Business	SBM 106	_____	_____	_____
	Special Topics: Business: Basic Tax Facts	SBM 175	_____	_____	_____
	Special Topics: Conflict Management and Negotiating	SBM 275	_____	_____	_____
	Marketing for a Small Business	SBM 108	_____	_____	_____
	Financing a Small Business	SBM 112	_____	_____	_____
	<u>ELECTIVES – Choose 11 credits</u>				
11	Select courses from the following: ACC 125; BTE 102, 156, 255; CIS 167; MAN 226; MAR 111, 220	_____	_____	_____	_____
		_____	_____	_____	_____
		_____	_____	_____	_____
		_____	_____	_____	_____
65	TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering)				

**STUDENT
NAME:** _____

ADVISOR: _____

ASSOCIATE OF APPLIED SCIENCE
SMALL BUSINESS MANAGEMENT - CRIMINAL JUSTICE
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS - 12</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	SPE 115	_____	_____	_____
3	Introduction to Statistics	MAT 135	_____	_____	_____

RELATED COURSE REQUIREMENTS – 27

3	Introduction to Criminal Justice	CRJ 110	_____	_____	_____
3	Substantive Criminal Law	CRJ 111	_____	_____	_____
3	Procedural Criminal Law	CRJ 112	_____	_____	_____
3	Law Enforcement Operations	CRJ 125	_____	_____	_____
3	Judicial Function	CRJ 135	_____	_____	_____
3	Correctional Process	CRJ 145	_____	_____	_____
3	Constitutional Law	CRJ 210	_____	_____	_____
3	Human Relations and Social Conflict	CRJ 220	_____	_____	_____
3	Criminology	CRJ 230	_____	_____	_____

SPECIALIZED COURSE REQUIREMENTS – 27

	Human Resource Management I	MAN 200	_____	_____	_____
	OR				
	Human Relations	PSY 106	_____	_____	_____
1	Introduction to the PC	CIS 110	_____	_____	_____
3	Complete PC Data Base	CIS 145	_____	_____	_____
3	Analytical Investigations	CRJ 233	_____	_____	_____
3	PC Spreadsheets Concepts	CIS 155	_____	_____	_____
3	Computer Applications for Criminal Justice	CRJ 238	_____	_____	_____
3	Patrol Management	CRJ 239	_____	_____	_____
	OR				
	Organization Management/Correctional Institutions	CRJ 255	_____	_____	_____
3	Applied Computer Project for Criminal Justice	CRJ 265	_____	_____	_____
3	Criminal Justice Internship	CRJ 280	_____	_____	_____
	OR				
	Management Internship	MAN 280	_____	_____	_____
3	Principles of Management	MAN 226	_____	_____	_____

66 TOTAL REQUIRED HOURS FOR ASSOCIATE OF APPLIED SCIENCE

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

STUDENT

NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATES

OCCUPATIONAL CERTIFICATE ACCOUNTING PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>SPECIALIZED COURSE REQUIREMENTS – 14 credit hours</u>					
4	Accounting Principles I	ACC 121	_____	_____	_____
4	Accounting Principles II	ACC 122	_____	_____	_____
3	Payroll Accounting	ACC 115	_____	_____	_____
3	Introduction to Business	BUS 115	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS – 6 credit hours</u>					
3	Introduction to PC Applications	CIS 118	_____	_____	_____
OR					
3	Word Processing Techniques I	BTE 155	_____	_____	_____
	PC Spreadsheet Concepts	CIS 155	_____	_____	_____
20	TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE				
	(State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT
NAME: _____

ADVISOR: _____



OCCUPATIONAL CERTIFICATE
AVIATION MAINTENANCE TECHNOLOGY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

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

89 **TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE**
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT

NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE AVIATION TECHNOLOGY

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

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

39 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____



**OCCUPATIONAL CERTIFICATE
AVIATION TECHNOLOGY
CERTIFIED FLIGHT INSTRUCTOR
*Airplane Single Engine Land***

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
PREREQUISITE: COMMERCIAL CERTIFICATE WITH INSTRUMENT RATING					
2	Fundamentals of Instruction	AVT 211	_____	_____	_____
2	Flight Instructor Ground School	AVT 212	_____	_____	_____
Completion of these classes is evidenced by passing the required FAA Knowledge Exams for Fundamentals of Instruction and Flight Instructor Airplane					
1	Flight Instructor Flight	AVT 213	_____	_____	_____
Completion of the Flight Phase is evidenced by passing the required FAA Practical Exam for Flight Instructor, Airplane Single Engine Land					
5	TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

**STUDENT
NAME:** _____

ADVISOR: _____



**OCCUPATIONAL CERTIFICATE
AVIATION TECHNOLOGY
CERTIFIED INSTRUMENT FLIGHT INSTRUCTOR**
Airplane Single Engine Land
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>REQUIRED COURSES</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
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PREREQUISITE: CERTIFIED FLIGHT INSTRUCTOR CERTIFICATE

2	Instrument Instructor Ground School	AVT 221	_____	_____	_____
---	-------------------------------------	---------	-------	-------	-------

Completion of this class is evidenced by passing the required FAA Knowledge Exam for Instrument Instructor, Airplane.

1	Instrument Instructor Flight	AVT 222	_____	_____	_____
---	------------------------------	---------	-------	-------	-------

Completion of this Certificate is evidenced by passing the required FAA Practical Exam for Instrument Instructor, Airplane Single Engine Land.

3 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. CNCC courses are in plain lettering)

STUDENT NAME: _____ **ADVISOR:** _____



OCCUPATIONAL CERTIFICATE AVIATION TECHNOLOGY COCKPIT RESOURCE MANAGEMENT *PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS*

Required Credits	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
4	Instrument Pilot Ground School	AVT 111	_____	_____	_____
4	Instrument Pilot Flight	AVT 112	_____	_____	_____

Completion of these classes is evidenced by attaining an Instrument Rating on an airplane Single or Multi-Engine Land; Private or Commercial Certificate

1	Crew Resource Management	AVT 206	_____	_____	_____
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Completion of this Certificate is evidenced by satisfactorily passing the ground instruction and Flight Training Device portions of AVT 206, after having met the requirements of AVT 111 and 112

This certificate is patterned directly from the United Airlines Command, Leadership, and Response course that is mandatory for all their line pilots. It is increasingly becoming an item of emphasis in ALL flight training and nearly mandatory for all professional pilots.

9 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____



OCCUPATIONAL CERTIFICATE AVIATION TECHNOLOGY COMMERCIAL PILOT *Airplane Single Engine Land* PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
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PREREQUISITE: PRIVATE PILOT'S LICENSE WITH INSTRUMENT RATING

2	Commercial Pilot Ground School	AVT 201	_____	_____	_____
---	--------------------------------	---------	-------	-------	-------

Completion of this class is evidenced by passing the required FAA Commercial Pilot Knowledge Exam.

3	Commercial Flight I	AVT 202	_____	_____	_____
4	Commercial Flight II	AVT 203	_____	_____	_____

Completion of the Flight Phases is evidenced by passing the required FAA Practical Exam for Commercial Pilot, Airplane Single Engine Land.

9 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____



OCCUPATIONAL CERTIFICATE AVIATION TECHNOLOGY INSTRUMENT

Instrument Rating, Airplane Single Engine Land

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
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PREREQUISITE: 50 HOURS OF CROSS-COUNTRY FLIGHT TIME AS PILOT IN COMMAND, OF WHICH AT LEAST 10 HOURS MUST BE IN AIRPLANES
OR

BE ENROLLED IN A PART 141 INSTRUMENT/COMMERCIAL COURSE

4	Instrument Pilot Ground School	AVT 111	_____	_____	_____
---	--------------------------------	---------	-------	-------	-------

Completion of this class is evidenced by passing the required FAA Instrument Rating Knowledge Exam.

4	Instrument Pilot Flight	AVT 112	_____	_____	_____
---	-------------------------	---------	-------	-------	-------

Completion of the Flight Phase is evidenced by passing the required FAA Practical Exam for Instrument Airplane, Single Engine Land.

8 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

**STUDENT
NAME:** _____

ADVISOR: _____



OCCUPATIONAL CERTIFICATE AVIATION TECHNOLOGY MULTI-ENGINE

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
1	Multi-Engine Ground School	AVT 207	_____	_____	_____
1	Multi-Engine Flight	AVT 208	_____	_____	_____

Completion is evidenced by passing the required FAA Practical Exam for Airplane Multi-Engine Land.

2 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____



**OCCUPATIONAL CERTIFICATE
AVIATION TECHNOLOGY
PRIVATE PILOT**
Airplane Single Engine Land
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
4	Private Pilot Ground School	AVT 101	_____	_____	_____
4	Aviation Meteorology	AVT 105	_____	_____	_____

Completion of these classes is evidenced by passing the required FAA Private Pilot Knowledge Exam.

4	Private Pilot Flight	AVT 102	_____	_____	_____
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Completion of the Flight Phase is evidenced by passing the required FAA Private Pilot Airplane Single Engine Land Practical Exam

12 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____



**OCCUPATIONAL CERTIFICATE
CISCO SYSTEMS NETWORK ASSOCIATE
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

<u>Required Credits</u>		<u>Course Number</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>COURSE REQUIREMENTS</u>				
5	Cisco Network Associate I This course focuses on Networking Fundamentals including the OSI model and industry standards, networking topologies, IP addressing, and basic network design.	CNG 260	_____	_____
5	Cisco Network Associate II This course focuses on perfecting skills learned in the first semester. The student will learn basic beginning router configurations, routing to/from protocols, and introduction to LAN switching.	CNG 261	_____	_____
5	Cisco Network Associate III The student will be introduced to the advanced router configurations, LAN switching, network management, and advanced network design, preparation for 2- and 4-year EE, CS,, and IP program.	CNG 262	_____	_____
5	Cisco Network Associate IV Advanced network design projects and advanced network management projects. Student will have mastered lab skills, documentation skills, and people skills. Working in engineering teams, self and project management, oral exams and presentations.	CNG 263	_____	_____
20	TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)			

This program will prepare students to design, install, and troubleshoot small to medium sized local and wide area networks. Students who successfully complete the four networking academy courses will have the expertise needed to pass the CISCO Certified Networking Associate Exam.

STUDENT NAME: _____ ADVISOR: _____

OCCUPATIONAL CERTIFICATE CONSTRUCTION TECHNOLOGY I PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Contact		COURSE REQUIREMENTS	Course Number	Transfer Credits	Credit Hrs Completed	Grade
Credits	Hours					
1	15	Introduction to Carpentry	CAR 100	_____	_____	_____
1	15	Basic Safety	CAR 101	_____	_____	_____
1	22.5	Hand and Power Tools	CAR 102	_____	_____	_____
1	15	Job Site Layout and Blueprint Reading	CAR 105	_____	_____	_____
1	22.5	Form and Foundation Systems	CAR 115	_____	_____	_____
1	22.5	General Construction Framing	CAR 120	_____	_____	_____
1	22.5	Floor Framing	CAR 121	_____	_____	_____
1	22.5	Wall Framing	CAR 122	_____	_____	_____
1	22.5	Roofing Materials and Methods	CAR 125	_____	_____	_____
1	22.5	Windows and Exterior Doors	CAR 130	_____	_____	_____
1	22.5	Exterior Trim	CAR 131	_____	_____	_____
1	22.5	Thermal and Moisture Methods and Materials	CAR 135	_____	_____	_____
1	22.5	Stair Construction/Layout	CAR 140	_____	_____	_____
1	22.5	Interior Finishes – General	CAR 145	_____	_____	_____
1	22.5	Interior Finishes – Drywall Construction	CAR 146	_____	_____	_____
1	22.5	Interior Trim – General	CAR 150	_____	_____	_____
1	22.5	Interior Trim – Doors and Trim	CAR 151	_____	_____	_____
1	22.5	Interior Trim – Cabinets and Countertops	CAR 153	_____	_____	_____
1	22.5	Floor Finishes	CAR 160	_____	_____	_____
1	30	Clinical: Construction Lab I	CAR 170	_____	_____	_____
1	30	Clinical: Construction Lab I	CAR 171	_____	_____	_____
1	30	Clinical: Construction Lab I	CAR 172	_____	_____	_____
1	30	Clinical: Construction Lab I	CAR 173	_____	_____	_____
1	15	Special Topics: Deed and Land Research	CAR 175	_____	_____	_____

24 540 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE CONSTRUCTION TECHNOLOGY II PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	Contact Hours	COURSE REQUIREMENTS	Course Number	Transfer Credits	Credit Hours Completed	Grade
2	45	Advanced Site Layout	CAR 205	_____	_____	_____
1	22.5	Form and Foundation Systems II	CAR 215	_____	_____	_____
1	22.5	Advanced Framing - General	CAR 220	_____	_____	_____
2	45	Advanced Floor Systems	CAR 221	_____	_____	_____
2	45	Advanced Wall Systems	CAR 222	_____	_____	_____
2	45	Advanced Roofing Systems	CAR 223	_____	_____	_____
2	45	Advanced Stair Layout	CAR 240	_____	_____	_____
2	45	Advanced Interior Trim – General	CAR 250	_____	_____	_____
2	45	Advanced Interior Trim – Doors	CAR 251	_____	_____	_____
2	60	Clinical: Construction Lab II	CAR 270	_____	_____	_____
3	90	Clinical: Construction Lab II	CAR 271	_____	_____	_____
3	45	Special Topics in Construction Technology	CAR 275	_____	_____	_____

24 555 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE

COSMETOLOGY OCCUPATIONS – COSMETOLOGY

PROGRAM WORKSHEET AND GRAUATION REQUIREMENTS

Required Credits	Contact Hours		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>COURSE REQUIREMENTS</u>						
1	30	Shampoos, Rinses, Conditioners I	COS 103	_____	_____	_____
2	60	Introduction to Hair Coloring	COS 110	_____	_____	_____
2	60	Introduction to Hair Cutting	COS 120	_____	_____	_____
2	60	Introduction to Hair Styling	COS 130	_____	_____	_____
1	30	Introduction to Chemical Texture	COS 140	_____	_____	_____
2	60	Introduction to Disinfection, Sanitation, and Safety	COS 160	_____	_____	_____
3	90	Introduction to Facials and Skin Care	EST 110	_____	_____	_____
2	60	Intermediate Facials and Skin Care	EST 111	_____	_____	_____
3	90	Introduction to Manicures and Pedicures	NAT 110	_____	_____	_____
2	60	Intermediate Manicures and Pedicures	NAT 111	_____	_____	_____
2	60	Intermediate I: Hair Coloring	COS 111	_____	_____	_____
2	60	Intermediate I: Hair Cutting	COS 121	_____	_____	_____
1	30	Intermediate I: Chemical Texture	COS 141	_____	_____	_____
1	30	Laws, Rules, and Regulations	COS 150	_____	_____	_____
1	30	Intermediate I: Disinfection, Sanitation, and Safety	COS 161	_____	_____	_____
2	60	Advanced Manicures and Pedicures	NAT 210	_____	_____	_____
5	150	Application of Artificial Nails	NAT 211	_____	_____	_____
2	60	Advanced Massage and Skin Care	EST 210	_____	_____	_____
1	30	Facial Makeup	EST 211	_____	_____	_____
3	90	Hair Removal	EST 212	_____	_____	_____
2	60	Intermediate I: Hair Styling	COS 131	_____	_____	_____
1	30	Shampoos, Rinses, Conditioners II	COS 203	_____	_____	_____
2	60	Intermediate II: Hair Coloring	COS 210	_____	_____	_____
2	60	Advanced Hair Coloring	COS 211	_____	_____	_____
2	60	Intermediate II: Hair Cutting	COS 220	_____	_____	_____
2	60	Advanced Hair Cutting	COS 221	_____	_____	_____
2	60	Intermediate II: Hair Styling	COS 230	_____	_____	_____
1	30	Advanced Hair Styling	COS 231	_____	_____	_____
1	30	Intermediate II: Chemical Texture	COS 240	_____	_____	_____
1	30	Advanced Chemical Texture	COS 241	_____	_____	_____
1	30	Management, Ethics, Interpersonal Skills, and Sales	COS 250	_____	_____	_____
2	60	Intermediate II: Disinfection, Sanitation, and Safety	COS 260	_____	_____	_____
1	30	Advanced Disinfection, Sanitation, and Safety	COS 261	_____	_____	_____

60 1800 TOTAL REQUIRED HOURS FOR COMPLETION OF THE CERTIFICATE: COSMETOLOGY
 (State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

ELECTIVES (May be substituted for any Introduction, Intermediate, and Advanced courses)

0.5-6	Special Topics	COS 275	_____	_____	_____
0.5-6	Seminar/Workshop: Cosmetology	COS 278	_____	_____	_____
0.5-6	Internship	COS 280	_____	_____	_____
1-10	Independent Study	COS 286	_____	_____	_____
0.5-10	Cosmetology Practicum	COS 288	_____	_____	_____
1-3	Capstone	COS 289	_____	_____	_____

STUDENT NAME: _____

ADVISOR: _____

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

OCCUPATIONAL CERTIFICATE COSMETOLOGY OCCUPATIONS – ESTHETICIAN/COSMETICIAN PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Contact <u>Credits</u> <u>Hours</u>	Course <u>Number</u>	Transfer <u>Credits</u>	Credit Hours <u>Completed</u>	<u>Grade</u>		
<u>COURSE REQUIREMENTS</u>						
3	90	Introduction to Facials and Skin Care	EST 110	_____	_____	_____
2	60	Intermediate Facials and Skin Care	EST 111	_____	_____	_____
2	60	Advanced Skin Care and Massage	EST 210	_____	_____	_____
1	30	Facial Makeup	EST 211	_____	_____	_____
3	90	Hair Removal	EST 212	_____	_____	_____
1	30	Laws, Rules, and Regulations	COS 150	_____	_____	_____
2	60	Intro to Disinfection, Sanitation, and Safety	COS 160	_____	_____	_____
1	30	Management, Ethics, Interpersonal Skills, and Sales	COS 250	_____	_____	_____
2	60	Intermediate II: Disinfection, Sanitation, and Safety	COS 260	_____	_____	_____
3	90	Advanced II: Disinfection, Sanitation, and Safety	COS 262	_____	_____	_____
20	600	TOTAL REQUIRED HOURS FOR COMPLETION OF THE CERTIFICATE: ESTHETICIAN (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				
<u>ELECTIVES</u> (May be substituted for any Introduction, Intermediate, and Advanced courses)						
1-3		Esthetician Preparations for State Boards	EST 230	_____	_____	_____
0.5-6		Special Topics	EST 275	_____	_____	_____
1-3		Advanced Esthetician Studies	EST 278	_____	_____	_____
0.5-6		Supervised Esthetician Internship	EST 280	_____	_____	_____
0.5-6		Independent Study	EST 285	_____	_____	_____
0.5-10		Esthetician Practicum	EST 288	_____	_____	_____
0.5-6		Professional Development/Continuing Education	EST 290	_____	_____	_____

STUDENT NAME: _____ **ADVISOR:** _____

Specialized courses (20 credit hours) are required by the Colorado Board of Barber/Cosmetology. Upon successful completion of the specialized courses, student may be eligible to register for the Colorado Board of Barber/Cosmetology license examination.

OCCUPATIONAL CERTIFICATE
COSMETOLOGY OCCUPATIONS – HAIRSTYLIST
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>Contact Hours</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>SPECIALIZED COURSES</u>						
1	30	Shampoos, Rinses, Conditioners I	COS 103	_____	_____	_____
2	60	Introduction to Hair Coloring	COS 110	_____	_____	_____
2	60	Intermediate I: Hair Coloring	COS 111	_____	_____	_____
2	60	Introduction to Hair Cutting	COS 120	_____	_____	_____
2	60	Intermediate I: Hair Cutting	COS 121	_____	_____	_____
2	60	Introduction to Hair Styling	COS 130	_____	_____	_____
2	60	Intermediate I: Hair Styling	COS 131	_____	_____	_____
1	60	Introduction to Chemical Texture	COS 140	_____	_____	_____
1	30	Intermediate I: Chemical Texture	COS 141	_____	_____	_____
1	30	Laws, Rules, and Regulations	COS 150	_____	_____	_____
2	60	Introduction to Disinfection, Sanitation, and Safety	COS 160	_____	_____	_____
1	30	Intermediate I: Disinfection, Sanitation, and Safety	COS 161	_____	_____	_____
1	30	Shampoo, Rinses, Conditioners II	COS 203	_____	_____	_____
2	60	Intermediate II: Hair Coloring	COS 210	_____	_____	_____
2	60	Advanced Hair Coloring	COS 211	_____	_____	_____
2	60	Intermediate II: Hair Cutting	COS 220	_____	_____	_____
2	60	Advanced Hair Cutting	COS 221	_____	_____	_____
2	60	Intermediate II: Hair Styling	COS 230	_____	_____	_____
1	30	Advanced Hair Styling	COS 231	_____	_____	_____
1	30	Intermediate II: Chemical Texture	COS 240	_____	_____	_____
1	30	Advanced Chemical Texture	COS 241	_____	_____	_____
1	30	Management, Ethics, Interpersonal Skills, and Sales	COS 250	_____	_____	_____
2	60	Intermediate II: Disinfection, Sanitation, and Safety	COS 260	_____	_____	_____
1	30	Advanced Disinfection, Sanitation, and Safety	COS 261	_____	_____	_____
3	90	Advanced II: Disinfection, Sanitation, and Safety	COS 262	_____	_____	_____
40	1200	TOTAL REQUIRED HOURS FOR COMPLETION OF THE CERTIFICATE: HAIRSTYLIST				
(State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)						
<u>ELECTIVES</u> (May be substituted for any Introduction, Intermediate, and Advanced courses)						
0.5-6		Special Topics	COS 275	_____	_____	_____
0.5-6		Seminar/Workshop: Cosmetology	COS 278	_____	_____	_____
0.5-6		Internship	COS 280	_____	_____	_____
1-10		Independent Study	COS 286	_____	_____	_____
0.5-10		Cosmetology Practicum	COS 288	_____	_____	_____
1-3		Capstone	COS 289	_____	_____	_____

STUDENT NAME: _____ **ADVISOR:** _____

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

OCCUPATIONAL CERTIFICATE

COSMETOLOGY OCCUPATIONS – NAIL TECHNICIAN

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	Contact Hours	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
3	90	Introduction to Manicures and Pedicures	NAT 110	_____	_____	_____
2	60	Intermediate Manicures and Pedicures	NAT 111	_____	_____	_____
1	30	Laws, Rules, and Regulations	NAT 150	_____	_____	_____
2	60	Introduction to Disinfection, Sanitation, and Safety	COS 160	_____	_____	_____
1	30	Intermediate I: Disinfection, Sanitation, and Safety	COS 161	_____	_____	_____
2	60	Advanced Manicures and Pedicures	NAT 210	_____	_____	_____
5	150	Application of Artificial Nails	NAT 211	_____	_____	_____
1	30	Management, Ethics, Interpersonal Skills and Sales	COS 250	_____	_____	_____
2	60	Intermediate II: Disinfection, Sanitation, and Safety	COS 260	_____	_____	_____
1	30	Advanced Disinfection, Sanitation, and Safety	COS 261	_____	_____	_____
20	600	TOTAL REQUIRED HOURS FOR COMPLETION OF CERTIFICATE: NAIL TECHNICIAN (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				
<u>ELECTIVES</u> (May be substituted for any Introduction, Intermediate, and Advanced courses)						
0.5-6		Special Topics	NAT 275	_____	_____	_____
0.5-6		Internship	NAT 280	_____	_____	_____
0.5-6		Independent Study	NAT 285	_____	_____	_____
0.5-10		Practicum	NAT 288	_____	_____	_____
3		Advanced Nail Technician Studies	NAT 290	_____	_____	_____

STUDENT NAME: _____ **ADVISOR:** _____

Specialized courses (20 credit hours) are required by the Colorado Board of Barber/Cosmetology. Upon successful completion of the specialized courses, student may be eligible to register for the Colorado Board of Barber/Cosmetology license examination.

**OCCUPATIONAL CERTIFICATE
CRIMINAL JUSTICE – LAW ENFORCEMENT
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
6	Basic Law Enforcement Academy I	CRJ 101	_____	_____	_____
12	Basic Law Enforcement Academy II	CRJ 102	_____	_____	_____
8	Basic Law	CRJ 105	_____	_____	_____
3	Arrest Control Techniques	CRJ 106	_____	_____	_____
3	Law Enforcement Driving	CRJ 107	_____	_____	_____
3	Firearms	CRJ 108	_____	_____	_____
1	Physical Training for Law Enforcement	CRJ 175	_____	_____	_____
1	National Park Service	CRJ 275	_____	_____	_____

37 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____



**OCCUPATIONAL CERTIFICATE
CRIMINAL JUSTICE – SEASONAL PARK RANGER
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
6	Basic Law Enforcement Academy I	CRJ 101	_____	_____	_____
3	Arrest Control Techniques	CRJ 106	_____	_____	_____
3	Law Enforcement Driving	CRJ 107	_____	_____	_____
3	Firearms	CRJ 108	_____	_____	_____
1	Physical Training for Law Enforcement	CRJ 175	_____	_____	_____
1	National Park Service	CRJ 275	_____	_____	_____

17 **TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE**
 (State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

**OCCUPATIONAL CERTIFICATE
EARLY CHILDHOOD PROFESSIONS – DIRECTOR
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Completed Credits</u>	<u>Grade</u>
3	Introduction to Early Childhood Education	ECE 101	_____	_____	_____
3	Introduction to Early Childhood Lab Techniques	ECE 102	_____	_____	_____
3	Guidance Strategies for Children	ECE 103	_____	_____	_____
3	Nutrition, Health, and Safety	ECE 205	_____	_____	_____
3	Curriculum Development: Methods and Techniques	ECE 220	_____	_____	_____
3	Administration of Early Childhood Care and Education Programs	ECE 240	_____	_____	_____
3	Administration: Human Relations for Early Childhood Education	ECE 241	_____	_____	_____
3	Child Development	PSY 238	_____	_____	_____

24 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
 (State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

**OCCUPATIONAL CERTIFICATE
EARLY CHILDHOOD PROFESSIONS – GROUP LEADER
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Completed Credits</u>	<u>Grade</u>
3	Introduction to Early Childhood Education	ECE 101	_____	_____	_____
3	Introduction to Early Childhood Lab Techniques	ECE 102	_____	_____	_____
3	Guidance Strategies for Children	ECE 103	_____	_____	_____
3	Curriculum Development: Methods and Techniques	ECE 220	_____	_____	_____
3	Child Development	PSY 238	_____	_____	_____

15 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE
EARLY CHILDHOOD PROFESSIONS – INFANT AND TODDLER
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Completed Credits</u>	<u>Grade</u>
3	Infant and Toddler Theory and Practice	ECE 111	_____	_____	_____
3	Introduction to Infant and Toddler Lab Techniques	ECE 112	_____	_____	_____
3	Child Development	PSY 238	_____	_____	_____

9 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
 (State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ ADVISOR: _____

OCCUPATIONAL CERTIFICATE E-COMMERCE – BUSINESS PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

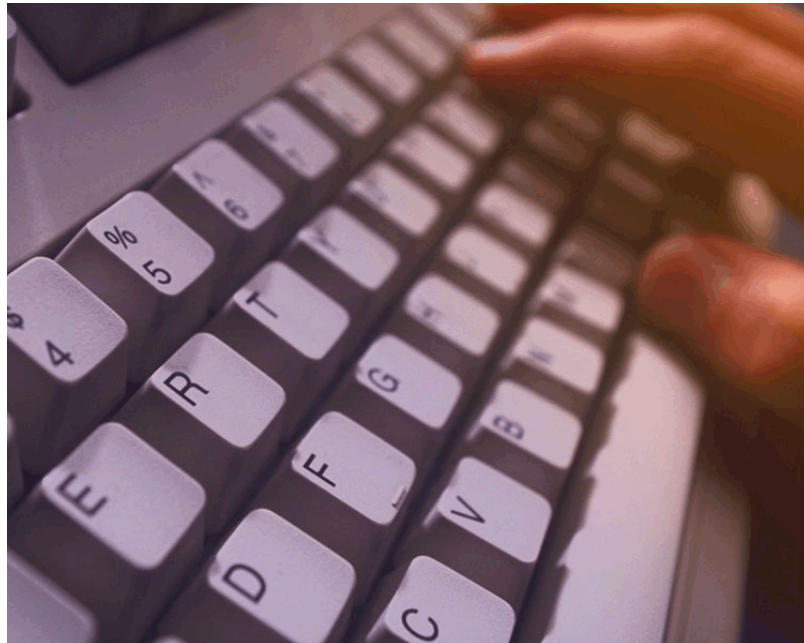
<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Credits</u>	<u>Grade</u>
3	Introduction to Electronic Commerce	BUS 120	_____	_____
3	Tech. Foundations of E-Commerce	CWB 221	_____	_____
3	Business Process Foundations For E-Commerce	BUS 260	_____	_____
3	E-Commerce Business Value	BUS 261	_____	_____
3	Implementing E-Commerce	MAR 222	_____	_____
1	Seminar	MAR 278	_____	_____
 <u>ELECTIVES: (Optional) 0-2</u>				
1-2	Cooperative Education/Internship	MAR 187	_____	_____
1-2	E-Commerce Business Indep. Study	MAR 285	_____	_____

16 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

Prerequisites: CIS 118 and work experience in business, networking, or programming or permission of instructor.

*Students must meet requirements for English Composition I (**ENG 121**) and Survey of Algebra (MAT 106) prior to enrollment in the E-Commerce Certificate Programs.

STUDENT NAME: _____ ADVISOR: _____



**OCCUPATIONAL CERTIFICATE
E-COMMERCE – TECHNOLOGY**
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>SPECIALIZED COURSE REQUIREMENTS: 15</u>	<u>Course Number</u>	<u>Credits</u>	<u>Grade</u>
3	Introduction to Electronic Commerce	BUS 120	_____	_____
3	Global E-Commerce	BUS 215	_____	_____
3	Business Process Foundations For E-Commerce	BUS 260	_____	_____
3	Java Programming	CSC 240	_____	_____
3	Java Internet Programming	CSC 248	_____	_____
 <u>ELECTIVES: (Optional) 0-2</u>				
1-2	E-Commerce Technology Internship	CWB 297	_____	_____
1-2	E-Commerce Tech. Indep. Study	CWB 299	_____	_____

15 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

Prerequisites: CIS 118 and work experience in business, networking, or programming or permission of instructor.

*Students must meet requirements for **English Composition I (ENG 121)** and Survey of Algebra (MAT 106) prior to enrollment in the E-Commerce Certificate Programs.

STUDENT NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE EMERGENCY MEDICAL SERVICES – PROFESSIONAL PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Credit Hours</u>	<u>Course Name</u>	<u>Course Number</u>	<u>Transfer Credit</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>SPECIALIZED COURSE REQUIREMENTS – Choose 8 Credits</u>					
<i>Select courses from the following:</i>					
1	Pediatric Education for Pre-hospital Professionals (PEPP)	EMS 150	_____	_____	_____
1-6	EMS Special Topics (<i>maximum of 6 credits</i>)	EMS 175/275	_____	_____	_____
1	Pre-hospital Trauma Life Support (PHTLS)	EMS 213	_____	_____	_____
1	Basic Trauma Life Support (BTLS)	EMS 214	_____	_____	_____
1	Pediatric Advanced Life Support (PALS)	HPR 130	_____	_____	_____
2	Basic EKG Interpretation	HPR 190	_____	_____	_____
1	CPR Instructor	HWE 104	_____	_____	_____
1	ACLS	HPR 120	_____	_____	_____
2	EMT Intravenous Therapy	EMS 130	_____	_____	_____

8 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

**OCCUPATIONAL CERTIFICATE
EMERGENCY MEDICAL TECHNOLOGY – BASIC
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

<u>Credit Hours</u>	<u>Course Name</u>	<u>Course Number</u>	<u>Transfer Credit</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
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PRE-REQUISITE: CPR FOR PROFESSIONALS (Students must provide proof of current certification through transcripts or possession of current certification card)

SPECIALIZED COURSE REQUIREMENTS – 10 Credit Hours

9	EMT Basic	EMS 125	_____	_____	_____
1	EMT Basic Clinical	EMS 170	_____	_____	_____

10 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

OPTIONAL:

2	EMT Intravenous Therapy	EMS 130	_____	_____	_____
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Upon successful completion of the Specialized Course Requirements, students may apply to the Colorado Department of Public Health and Environment, Health Facilities and Emergency Medical Services Division, Pre-hospital Care Program EMT-Basic examination.

STUDENT NAME: _____ **ADVISOR:** _____

**OCCUPATIONAL CERTIFICATE
EMERGENCY MEDICAL TECHNOLOGY – INTERMEDIATE
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

<u>Credit Hours</u>	<u>Course Name</u>	<u>Course Number</u>	<u>Transfer Credit</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>SPECIALIZED COURSE REQUIREMENTS – 17 Credit Hours</u>					
2	EMT Intravenous Therapy	EMS 130	_____	_____	_____
6	EMT Intermediate I	EMS 203	_____	_____	_____
6	EMT Intermediate II	EMS 205	_____	_____	_____
3	EMT Intermediate Clinical	EMS 270	_____	_____	_____

17 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

OPTIONAL:

1	ACLS	HPR 120	_____	_____	_____
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Upon successful completion of the Specialized Course Requirements, students may apply to the Colorado Department of Public Health and Environment, Health Facilities and Emergency Medical Services Division, Pre-hospital Care Program EMT- Intermediate examination.

STUDENT NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE GEOGRAPHIC INFORMATION SYSTEMS PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	COURSE REQUIREMENTS	Course Number	Transfer Credits	Credit Hours Completed	Grade
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REQUIRED COURSES – 9 Credit Hours

3	ArcView GIS	GIS 105	_____	_____	_____
3	Global Positioning Systems for GIS	GIS 131	_____	_____	_____
3	GIS Applications	GIS 205	_____	_____	_____

OPTIONAL:

1	Internship	GIS 180	_____	_____	_____
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8 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____



**OCCUPATIONAL CERTIFICATE
NURSING PROFESSIONS – CERTIFIED NURSE AIDE
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
4	Nurse Aide Health Care Skills* *Prerequisite: HPR 102 – CPR for Professionals (0.5 credits)	NUA 101	_____	_____	_____
1	Nurse Assistant Clinical Experience	NUA 170	_____	_____	_____
5	TOTAL RQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT _____
ADVISOR: _____

NAME: _____



**OCCUPATIONAL CERTIFICATE
NURSING PROFESSIONS – PRACTICAL NURSE
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits	COURSE REQUIREMENTS	Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>SPECIALIZED COURSES – 21 Theory/Lab credit hours</u>					
1	Pharmacology Calculations	NUR 101	_____	_____	_____
3	Alterations in Adult Health I	NUR 102	_____	_____	_____
1	Basic Health Assessment for the Practical Nurse	NUR 103	_____	_____	_____
3	Alterations in Adult Health II	NUR 104	_____	_____	_____
5	Practical Nursing Arts and Skills	NUR 105	_____	_____	_____
1	Socialization into Practical Nursing	NUR 111	_____	_____	_____
2	Basic Concepts of Pharmacology	NUR 112	_____	_____	_____
2	Basic Concepts of Maternal-Newborn Nursing	NUR 113	_____	_____	_____
2	Basic Concepts of Nursing of Children	NUR 114	_____	_____	_____
1	Basic Concepts in Mental Health and Illness	NUR 115	_____	_____	_____
<u>SPECIALIZED COURSES –15 Clinical credit hours</u>					
3	Clinical I (Application of Practical Nursing Arts and Skills)	NUR 170	_____	_____	_____
5	Clinical II (Application of Alteration in Adult Health I)	NUR 171	_____	_____	_____
1	Clinical III (Application of Basic Concepts of Maternal-Newborn Nursing)	NUR 172	_____	_____	_____
1	Clinical IV (Application of Basic Concepts of Nursing of Children)	NUR 173	_____	_____	_____
5	Clinical V (Application of Alteration in Adult Health II)	NUR 174	_____	_____	_____
<u>REQUIRED COURSES – 2 credit hours</u>					
1	Dietary Nutrition	HPR 108	_____	_____	_____
1	Seminar: Medical Terminology	HPR 178	_____	_____	_____
<u>GENERAL EDUCATION COURSES – 7 credit hours</u>					
4	Human Anatomy and Physiology I	BIO 201	_____	_____	_____
3	English Composition I	ENG 121	_____	_____	_____
45	TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)				

STUDENT NAME: _____ ADVISOR: _____

OCCUPATIONAL CERTIFICATE
OFFICE ADMINISTRATION – DESKTOP PUBLISHING
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Credit Hours Completed</u>	<u>Transfer Credits</u>	<u>Grade</u>
3	English Composition I	ENG 121	_____	_____	_____
3	<u>Select one course from:</u> ENG 122, ENG 131, OR BUS 217	_____	_____	_____	_____
3	Intro to Operating Systems	CIS 124	_____	_____	_____
3	Word Processing Techniques I	BTE 155	_____	_____	_____
3	Word Processing Techniques II	BTE 255	_____	_____	_____
3	Desktop Publishing	CIS 167	_____	_____	_____
3	Complete Presentation Graphics: Power Point	CIS 165	_____	_____	_____
3	Telecommunications I	CNG 160	_____	_____	_____
3	<u>Select one course from:</u> CIS 128, MGD 103, or CAD101	_____	_____	_____	_____
5	<u>ELECTIVES:</u> <u>Select two courses from:</u> BTE 103, CIS 128, CIS 145, CIS 155	_____ _____	_____ _____	_____ _____	_____ _____
32	TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE (State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering)				

STUDENT NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE
OFFICE ADMINISTRATION – LEGAL ADMINISTRATIVE ASSISTANT
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	COURSE REQUIREMENTS	Course Number	Credit Hours Completed	Grade
<u>SPECIALIZED COURSE REQUIREMENTS</u> 10 credit hours				
1	Legal Terminology	BTE 128	_____	_____
3	Legal Office Procedures	BTE 238	_____	_____
3	Legal Transcription	BTE 229	_____	_____
3	Legal Environment In Business	BUS 216	_____	_____
<u>RELATED COURSE REQUIREMENTS</u> 16 credit hours				
3	Administrative Office Management	BTE 225	_____	_____
3	Machine Transcription	BTE 226	_____	_____
1	Intro to the PC (1 credit)	CIS 110	_____	_____
	OR			
	Windows Complete (3 credits)	CIS 128	_____	_____
3	Word Processing Tech I	BTE 155	_____	_____
3	Word Processing Tech II	BTE 255	_____	_____
3	Complete PC Database	CIS 145	_____	_____
<u>ADDITIONAL REQUIREMENTS</u> 3 credit hours				
3	English Composition I	ENG 121	_____	_____
	OR			
	Business Editing Skills	BTE 166	_____	_____
29	TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE			
	(State-approved core courses are indicated by bold print . State-approved elective courses are in plain lettering.)			

STUDENT NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE
OFFICE ADMINISTRATION – OFFICE ADMINISTRATION
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>SPECIALIZED COURSE REQUIREMENTS - 21 credits</u>					
3	Keyboarding Applications II	BTE 103	_____	_____	_____
3	Administrative Office Management	BTE 225	_____	_____	_____
3	Business Editing Skills	BTE 166	_____	_____	_____
3	Intro to Operating Systems (CIS 124)				
	OR				
	Windows Complete (CIS 128)	_____	_____	_____	_____
3	Word Processing Tech I	BTE 155	_____	_____	_____
3	Complete PC Database	CIS 145	_____	_____	_____
3	PC Spreadsheets Concepts	CIS 155	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS - 4 credits</u>					
4	Business Math with Calculators	BTE 156	_____	_____	_____
<u>GENERAL EDUCATION REQUIREMENTS - 3 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
<u>ELECTIVE REQUIREMENTS - 3 credits</u>					
3	ACC; BTE, BUS, CIS, PSY 106 (Recommended ACC 121, BUS 226, BUS 216, BUS 217, BTE 255, or PSY 106)	_____	_____	_____	_____
31	TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE (State-approved core courses are indicated by bold print . CNCC courses are in plain lettering)				

STUDENT NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE
OFFICE ADMINISTRATION – OFFICE MANAGEMENT
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>COURSE REQUIREMENTS</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
<u>SPECIALIZED COURSE REQUIREMENTS</u> 18 credit hours					
3	Introduction to Business	BUS 115	_____	_____	_____
3	Human Resource Management I	MAN 200	_____	_____	_____
3	Principles of Supervision (MAN 116)	_____	_____	_____	_____
OR					
Small Business Management I (MAN 216)					
3	Cooperative Education/Internship	MAN 287	_____	_____	_____
3	Principles of Marketing	MAR 216	_____	_____	_____
3	Human Relations	PSY 106	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS</u> (Select 12 credit hours)					
3	Records Management	BTE 125	_____	_____	_____
3	Word Processing Techniques I	BTE 155	_____	_____	_____
3	Word Processing Techniques II	BTE 255	_____	_____	_____
1	Introduction to the Internet	CIS 130	_____	_____	_____
3	Complete Web Authoring	CWB 165	_____	_____	_____
3	Mastering the Web	CWB 106	_____	_____	_____
3	Principles of Macroeconomics	ECO 201	_____	_____	_____
3	Ethics	PHI 112	_____	_____	_____
OR					
BUS, CIS, CSC, ECO, ACC (with approval from advisor)					

30 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
 (State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____

**OCCUPATIONAL CERTIFICATE
PROCESS TECHNOLOGY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

<u>Required Credits</u>		<u>Course Number</u>	<u>Transfer Credits</u>	<u>Completed Credits</u>	<u>Grade</u>
<u>COURSE REQUIREMENTS (25 credits)</u>					
3	Introduction to Process Technology	PRO 100	_____	_____	_____
3	Safety, Health, and Environment	PRO 110	_____	_____	_____
4	Process technology I: Equipment	PRO 120	_____	_____	_____
3	Instrumentation I	PRO 130	_____	_____	_____
4	Process Technology II: Systems	PRO 210	_____	_____	_____
4	Process Technology III: Operations	PRO 220	_____	_____	_____
3	ArcView GIS	GIS 105	_____	_____	_____
1	Workplace Communication	COM 100	_____	_____	_____

ELECTIVES – Choose 5 credits

Select courses from the following:					
3	Instrumentation II	PRO 131	_____	_____	_____
3	Quality in Process Technology	PRO 230	_____	_____	_____
4	Process Troubleshooting	PRO 240	_____	_____	_____
3	Oil & Gas Production I	PRO 250	_____	_____	_____
3	Oil & Gas Production II	PRO 255	_____	_____	_____
2	Process Technology Internship	PRO 280	_____	_____	_____

30 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE

STUDENT NAME: _____ **ADVISOR:** _____

OCCUPATIONAL CERTIFICATE WEB DESIGN

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>		<u>Course Number</u>	<u>Transfer Credits</u>	<u>Completed Credits</u>	<u>Grade</u>
<u>GENERAL EDUCATION COURSE REQUIREMENTS – 3 credit hours</u>					
3	English Composition I (ENG 121)	ENG ____	_____	_____	_____
	OR				
	Technical Writing (ENG 131)				
<u>SPECIALIZED COURSE REQUIREMENTS – 25 credit hours</u>					
3	Intro to E-Commerce	BUS 120	_____	_____	_____
3	Windows Complete	CIS 128	_____	_____	_____
1	Intro to the Internet	CIS 130	_____	_____	_____
3	Complete PC Database	CIS 145	_____	_____	_____
3	Visual Basic Programming	CSC 150	_____	_____	_____
3	Java Programming (CSC 240)	_____	_____	_____	_____
	OR				
	Advanced E-Commerce Technology (CWB 223)				
3	Complete Web Authoring	CWB 110	_____	_____	_____
3	Technology Foundations for E-Commerce	CWB 221	_____	_____	_____
3	Web Design I	MGD 141	_____	_____	_____

28 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

STUDENT NAME: _____ **ADVISOR:** _____



COURSE DESCRIPTIONS

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

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

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

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

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

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

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

ACADEMIC ACHIEVEMENT

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

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

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

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

ACCOUNTING

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

Prerequisite: ACC 121.

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

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

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

ACC 122 ACCOUNTING PRINCIPLES II/4(3-2-0)

Prerequisite: ACC 121.

Continues the study of accounting principles as they apply to partnerships and corporations. Major topics include stocks and bonds, investments, cash flow

statements, financial analysis, budgeting, and cost and managerial accounting.

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

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

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

Prerequisite: ACC 121 is strongly recommended.

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

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

Prerequisites: ACC 122 or spreadsheet experience.

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

ACC 211 INTERMEDIATE ACCOUNTING I /4(4-0-0)

Prerequisite: ACC 122.

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

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

Prerequisite: ACC 211.

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

ACC 215 ACCOUNTING INFORMATION SYSTEMS AND E-BUSINESS/3(3-0-0)

Prerequisite: ACC 122.

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

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

Prerequisite: ACC 122.

Addresses concepts of budgetary control as a matter of law and public administration theory. Accounting

principles and procedures necessary to implement budgetary controls for governmental units and other not-for-profit institutions and organizations are presented.

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

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

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

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

Prerequisite: ACC 226.

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

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

Prerequisite: Instructor's permission.

Provides an opportunity to gain practical experience in applying occupational skills and/or to develop specific skills in a practical work setting. The instructor works with the student to select an appropriate work site, establish learning objectives, and coordinate learning activities with the employer or work site supervisor. For Accounting majors only.

AGRICULTURE CROPS & SOILS

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

Prerequisite: CHE 101 or 111.

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

AVIATION MAINTENANCE TECHNOLOGY

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

AMT 113 AIRCRAFT WELDING/1(.5-1-0)

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

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

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

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

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

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

Prerequisite: AMT 115.

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

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

Prerequisite: AMT 112.

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

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

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

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

Prerequisite: AMT 102.

Focuses on the operation, troubleshooting and repair of aircraft electrical systems with emphasis on

alternators, motors, and lighting systems and the wiring, control and circuit protection devices for each.

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

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

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

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

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

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

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

Prerequisite: AMT 102 or 122.

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

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

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

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

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

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

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

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

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

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

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

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

Introduces aircraft piston engine ignition systems, including classifications, components, theory, starting systems, maintenance, servicing, and repair. The course is designed for the second-year student working toward the FAA Powerplant rating.

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

Prerequisite: AMT 201.

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

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

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

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

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

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

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

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

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

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

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

AMT 215 TURBINE ENGINE MAINTENANCE/4(1-6-0)

Prerequisite: AMT 211.

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

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

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

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

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

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

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

AMT 252 HELICOPTER MAINTENANCE II/3(2-2-0)

Prerequisite: AMT 251 or consent of instructor.

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

ANTHROPOLOGY

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

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

This course is one of the Statewide Guaranteed Transfer courses.

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

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

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

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

This course is one of the Statewide Guaranteed Transfer courses.

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

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

ANT 275 SPECIAL TOPICS/0.5-6

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

AQUACULTURE

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

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

ART

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

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

This course is one of the Statewide Guaranteed Transfer courses.

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

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

This course is one of the Statewide Guaranteed Transfer courses.

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

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

This course is one of the Statewide Guaranteed Transfer courses.

ART 119 LETTERING/3(3-0-0)

Introduces the manipulation of materials, tools, and styles of lettering and their uses as fine art media.

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

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

ART 122 DRAWING II/3(3-0-0)

Prerequisite: ART 121.

Explores expressive drawing techniques with an emphasis on formal composition, color media and content or thematic development.

ART 123 WATERCOLOR I/3(3-0-0)

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

ART 131 2-D DESIGN/3(3-0-0)

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

ART 135 FIBER DESIGN I/3(3-0-0)

Introduces basic fiber design. Explores basic studies and approaches to fiber design, ranging from the uses of dyes, prints, painting, and threads to an appreciation of the properties of various kinds of fiber and textiles.

ART 146 STAINED GLASS I/3(3-0-0)

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

ART 147 STAINED GLASS II/3(3-0-0)

Prerequisite: ART 146.

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

ART 154 SCULPTURE I/3(3-0-0)

Introduces the fundamentals of sculpture such as modeling, casting, carving, and the processes of assemblage.

ART 156 FIGURE DRAWING I/3(3-0-0)

Introduces the basic techniques of drawing the human figure.

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

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

ART 162 CERAMICS II/3(3-0-0)

Prerequisite: ART 161.

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

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

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

This course is one of the Statewide Guaranteed Transfer courses.

ART 211 PAINTING I/3(3-0-0)

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

ART 212 PAINTING II/3(3-0-0)

Prerequisite: ART 211 or instructor's permission.

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

ART 231 ADVANCED 2-D DESIGN/3(3-0-0)

Prerequisite: ART 131.

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.

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

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

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

Prerequisite: ASL 101 or instructor's permission.

Continues the sequence for students who want to learn basic conversational patterns to communicate with the Deaf community. The material covers basic vocabulary and conversational skills, and aspects of the Deaf culture and community.

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

Exposes the student to American Sign Language.

Readiness activities are conducted focusing on visual/receptive skills and basic communication. Utilizes the direct experience method. Students must complete this course with a 'B' or higher or pass the ASL proficiency test with a score of at least 80% or

better prior to registering for ASL 122 if planning to enroll in the Interpreter Preparation Program.

ASL 122 AMERICAN SIGN LANGUAGE II/5(5-0-0)

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

ASTRONOMY

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

Focuses on the history of astronomy, the tools of the astronomer and the contents of the solar system including the planets, moons, asteroids, comets, and meteoroids. Incorporates laboratory experience. *This course is one of the Statewide Guaranteed Transfer courses.*

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

Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. *This course is one of the Statewide Guaranteed Transfer courses.*

AVIATION TECHNOLOGY

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

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

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

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

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

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

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

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

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

Prerequisite: Private Pilot Certificate. Focuses on preparation for the FAA Instrument Rating Knowledge Exam.

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

Prerequisites: Private Pilot Certificate, or consent of Department Chair. Focuses on flight training in preparation for the Instrument Rating, Single Engine Airplane FAA Practical Test, and completing requirements for the Instrument Rating.

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

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

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

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

AVT 201 COMMERCIAL PILOT GROUND SCHOOL/2(2-0-0)

Prerequisites: Private Pilot Certificate with Instrument Rating or consent of Department Chair. Prepares the student for the Commercial Pilot Airplane, Single Engine, Land FAA Knowledge Exam.

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

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

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

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

AVT 205 MOUNTAIN FLYING GROUND SCHOOL/1(1-0-0)

Prerequisite: Private Pilot Certificate or consent of Department Chair. Acquaints the student with the unique aspects of flying in mountainous terrain and the additional knowledge and proficiency necessary for safe and efficient operation in mountain and high altitude terrain.

AVT 206 CREW RESOURCE MANAGEMENT/1(1-0-0)

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

**AVT 207 MULTI-ENGINE GROUND SCHOOL/
1(1-0-0)**

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

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

Prerequisite: Private or Commercial Airplane, Single Engine, Land Pilot Certificate.
Focuses on flight training in preparation for the Airplane, Multi-Engine Rating and completing requirements for this Rating.

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

Prerequisite: Commercial Pilot Certificate with Instrument Rating.
Focuses on preparation for the FAA Fundamentals of Instructing Knowledge Exam.

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

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

AVT 213 FLIGHT INSTRUCTOR FLIGHT/1(1-0-0)

Prerequisite: AVT 211 and 212, or equivalent instruction and approval of Department Chair.
Focuses on flight training in preparation for the Flight Instructor Airplane, Single-Engine Land FAA Practical Test, completing requirements for the Flight Instructor Certificate.

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

Prerequisite: Flight Instructor Certificate – Airplane Single Engine Land, or consent of Department Chair.
Focuses on preparation for the FAA Instrument Instructor Knowledge Exam.

**AVT 222 INSTRUMENT INSTRUCTOR FLIGHT/
1(1-0-0)**

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

**AVT 223 MULTI-ENGINE INSTRUCTOR
FLIGHT/1(1-0-0)**

Prerequisite: Flight Instructor – Airplane Single Engine Land Certificate.
Focuses on flight instruction in preparation for the addition of Multi-Engine Rating to the Flight Instructor Airplane Single Engine Land Certificate.

AVT 235 PILOT REFRESHER FLIGHT/1(1-0-0)

Prerequisite: Pilot Certificate.
Provides a refresher to allow a Certificated Pilot to maintain or regain proficiency. May count as a Flight Review when the requirements of CFR Part 61.56 are met.

**AVT 236 TAILWHEEL TRANSITION FLIGHT
1(1-0-0)**

Prerequisite: Private Pilot Certificate and consent of Department Chair.
Focuses on flight training in preparation to receive the Tail-Wheel Endorsement from a Certificated Flight Instructor.

AVT 237 BASIC AEROBATICS/1(1-0-0)

Prerequisite: Private Pilot Certificate, Airplane Single Engine Land.
Introduces the student to the unusual attitudes of flight with emphasis on technique and recovery from inadvertent unusual attitudes. Maneuvers may include but are not limited to stalls, spins, aileron rolls, loops, Cuban eight, barrel rolls, split « s », and cloverleaf. The FAA required parachutes are provided. All flights in this course are dual only.

**AVT 241 AIRLINE TRANSPORT PILOT FLIGHT/
1(1-0-0)**

Prerequisite: 1500 hours pilot time, at least 23 years of age, at least a current third class medical certificate, have passed the ATP Knowledge Exam within the previous two years, and be able to meet the requirements of CFR Part 61, Subpart G.
Focuses on flight instruction in preparation for the FAA Airline Transport Pilot Practical Test.

BIOLOGY

**BIO 104 BIOLOGY: A HUMAN APPROACH/
4(3-2-0)**

Develops a basic knowledge of the structure and function of the human body by studying the body's structure as a series of interrelated systems. Includes cardiovascular, respiratory, digestive, lymphatic, musculoskeletal, nervous, endocrine, reproductive and urinary systems, and genetics. Emphasizes disease prevention and wellness. This course includes laboratory experience.

BIO 105 SCIENCE OF BIOLOGY/4(3-2-0)

Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science - a process of gaining new knowledge - as is the impact of biological science on society. Includes laboratory experiences. Designed for non-science majors.

This course is one of the Statewide Guaranteed Transfer courses.

**BIO 110 FOUNDATIONS OF COLLEGE
BIOLOGY/5(4-2-0)**

Emphasizes general concepts of biology as a science and includes basic chemistry, cell structure and function, genetics, and evolution. A preliminary course designed for students pursuing human anatomy and physiology. Includes laboratory experience.

**BIO 111 GENERAL COLLEGE BIOLOGY I WITH
LAB/5(4-2-0)**

Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration, and photosynthesis, as well

as cell reproduction and basic concepts of heredity. This course includes laboratory experience. *This course is one of the Statewide Guaranteed Transfer courses.*

BIO 112 GENERAL COLLEGE BIOLOGY II WITH LAB/5(4-2-0)

Prerequisite: BIO 111.

A continuation of Biology I. Includes ecology, evolution, classification, structure, and function in plants and animals. This course includes laboratory experience.

This course is one of the Statewide Guaranteed Transfer courses.

BIO 115 HUMAN GENETICS/3(3-0-0)

Focuses on a study of the inheritance of human traits. It is a non-mathematical study for the non-science major. Includes Mendelian, non-Mendelian, sex-linked, blood type traits, inherited diseases and ethics.

BIO 143 ECOLOGY OF COLORADO/3(3-0-0)

Studies the natural environments in Colorado.

Explores the vast natural environments of Colorado and the plants and animals that inhabit the life zones of our majestic plains, mountains, and valleys. Discovers the interrelationships of man and his Colorado environment - past, present, and future. Through an inquiry approach, the student examines the changing needs and roles of our environments. Field trips include Roxborough State Park, Garden of the Gods, Mt. Evans, Pikes Peak, Deer Creek Canyon, Daniels Park, Barr Lake or others.

BIO 152 WILDLIFE BIOLOGY/3(3-0-0)

Studies the biology of wild mammals, birds, and fish. Focuses on conservation of wildlife and fisheries resources.

BIO 154 BIOLOGY OF PLANTS/4(2-4-0)

Focuses on the diversity of plants, the structure and function of plants, the ecology of plants, and human use of plants. Emphasizes seed-producing vascular plants, especially flowering plants. Laboratory and field experience is included.

BIO 201 HUMAN ANATOMY & PHYSIOLOGY I/4(3-2-0)

Prerequisite: BIO 111 or permission of instructor. Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, nervous, and endocrine systems. Includes a mandatory hands-on laboratory experience covering experimentation, microscopy, observations, and dissection. This is the first semester of a two-semester sequence.

This course is one of the Statewide Guaranteed Transfer courses.

BIO 202 HUMAN ANATOMY & PHYSIOLOGY II/4(3-2-0)

Prerequisite: BIO 201 or equivalent, or permission of Department Chair.

Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the

following systems and topics: cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving experimentation, microscopy, observations, and dissection. This is the second semester of a two-semester sequence.

This course is one of the Statewide Guaranteed Transfer courses.

BIO 204 MICROBIOLOGY/4(3-2-0)

Prerequisite: BIO 111 or equivalent, or permission of Department Chair.

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.

This course is one of the Statewide Guaranteed Transfer courses.

BIO 222 GENERAL COLLEGE ECOLOGY/4(3-2-0)

Prerequisite: BIO 111 or equivalent, or permission of Department Chair.

Studies the interrelationships between organisms and their environment. Applies evolutionary theory to the study of composition and function of aquatic and terrestrial ecosystems, population biology, pollution, and the effects of man on ecosystems. Includes laboratory and field experiences.

BIO 228 FIELD BIOLOGY III/4(3-2-0)

Prerequisite: BIO 111 or equivalent, or permission of Department Chair.

Involves in-depth field study of natural environments within and outside of the United States. The course varies from seven to twenty-one days in length. Focuses on the identification of organisms, as well as an examination of ecological concepts and principles. Requires hands-on laboratory and field experience (includes extensive hiking).

BIO 275 INTERNSHIP/2 (2-0-0)

Prerequisite: BIO 111 or equivalent or permission of Department Chair.

Covers a specific topic within Biology, as determined by the instructor. Reflects the special expertise of the faculty and/or the special needs of the students.

BUSINESS TECHNOLOGY

BTE 100 COMPUTER KEYBOARDING/1(0-2-0)

Designed for students who have minimal or no keyboarding skills. Introduces the touch method of keyboarding, as well as the basic operation and functions of the equipment. Emphasizes learning the alphanumeric keyboard, proper technique, and speed control.

BTE 102 KEYBOARDING APPLICATIONS I/2(1-2-0)

Prerequisite: Ability to keyboard 20 wpm or permission of instructor.

Designed for students with minimal keyboarding skills. Introduces letters, tables, memos, and manuscripts. Emphasizes speed and accuracy.

BTE 103 KEYBOARDING APPLICATIONS II/3(1-4-0)

Prerequisite: BTE 102.
Reinforces basic keyboarding formats and procedures. Productivity and decision-making skills are exercised. Emphasizes speed and accuracy.

BTE 125 RECORDS MANAGEMENT/3(3-0-0)

Prerequisite: BTE 103 or acceptable keyboarding proficiency.
Instructs on how records are created, stored, and retrieved. Covers the basic filing rules - classifying, indexing, coding, storing, and retrieving as applied to basic methods - alphabetic, chronological, subject, numeric, and geographic. Emphasizes `hands-on` records management through the use of simulations, which includes manual and/or computer software.

BTE 128 LEGAL TERMINOLOGY/1(1-0-0)

Allows students to develop a basic legal terminology background. Students learn the state, federal, and local court structures.

BTE 155 WORD PROCESSING TECHNIQUES I/3(3-0-0)

Prerequisite: Computer literacy; permission of instructor.
Provides instruction in the preparation of business documents for the modern office using current software and learning software commands and functions. Includes creating, processing, and editing documents.

BTE 156 BUSINESS MATHEMATICS WITH CALCULATORS/4(3-2-0)

Covers basic business mathematics using the touch system on electronic calculators to solve business problems.

BTE 166 BUSINESS EDITING SKILLS/3(3-0-0)

Provides proofreading techniques and reviews spelling, punctuation, grammar, and word processing formats on various types of business documents and worksheets.

BTE 225 ADMINISTRATIVE OFFICE MANAGEMENT/3(3-0-0)

Presents new developments, technology, procedures, organization, and contemporary terminology used in effective office management. Emphasizes decision making and application of administrative skills.

BTE 226 MACHINE TRANSCRIPTION/3(3-0-0)

Prerequisite: Keyboard II or acceptable keyboarding proficiency.
Designed to help students become more proficient in transcribing memos, letters and other documents from machine transcription. Includes exercises to improve language arts skills. Introduces proper dictation techniques.

BTE 229 LEGAL TRANSCRIPTION/3(3-0-0)

Prerequisite: Keyboarding or Instructor permission.
Prepares students to work as legal transcriptionists. Students transcribe a variety of legal documents and develop a legal vocabulary.

BTE 238 LEGAL OFFICE PROCEDURES/3(3-0-0)

Designed for students who will be working in a legal office either in the private or the public sector. Covers fundamental office procedures found in both general and specialized law offices.

BTE 255 WORD PROCESSING TECHNIQUES II/3(3-0-0)

Prerequisite: BTE 155 or permission of instructor.
Introduces basic applications for advanced word processing for Windows. It reviews and expands the students` knowledge of MS Word functions including merging, sorting, tables, charts, desktop publishing newsletters, document enhancements, styles, macros, templates and wizards to increase proficiency.

BUSINESS

BUS 115 INTRODUCTION TO BUSINESS/3(3-0-0)

Focuses on the operation of the American business system. Covers fundamentals of the economy, careers and opportunities, marketing, management, production, governmental regulations, tools of business and social responsibilities.

BUS 120 INTRODUCTION TO E-COMMERCE/3(3-0-0)

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.

BUS 181 INTERNSHIP/1-6

Prerequisite: Program Advisor's approval.
Provides students with hands-on training in their career field. Occurs in a business setting arranged through a Student Work Experience (SWE)/Internship Coordinator, or by utilizing a current employment organization. Student is expected to work a minimum of 7.5 hours per week. Students attend 3 seminars during the semester of enrollment. Class utilizes cooperative work experience or project methods depending on the individual situation.

BUS 187 COOPERATIVE EDUCATION/ INTERNSHIP/0.5-6

Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work stations related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

BUS 215 GLOBAL E-COMMERCE/3(3-0-0)

The World Wide Web levels the business playing field and eliminates geographic barriers. The Internet provides global business potential for even the

smallest business. This course teaches how to approach and maximize this business opportunity. Includes global e-marketing and promotion, import and export management, legal issues, and language and cultural issues.

BUS 216 LEGAL ENVIRONMENT OF BUSINESS/3(3-0-0)

Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is devoted to economic regulation, social regulation, regulation and laws impacting labor-management issues, and environmental concerns. Students develop an understanding of the role of law in social, political, and economic change.

BUS 217 BUSINESS COMMUNICATION AND REPORT WRITING/3(3-0-0)

Emphasizes effective business writing and covers letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

BUS 226 BUSINESS STATISTICS/3(3-0-0)

Prerequisite: Survey of Algebra or permission of Instructor.

Focuses on statistical study, descriptive statistics, probability, and the binominal distribution, index numbers, time series, decision theory, confidence intervals, linear regression, and correlation. Intended for the business major.

BUS 260 BUSINESS PROCESS FOUNDATIONS FOR E-COMMERCE/3(3-0-0)

Prerequisite: BUS 120, CWB 221.

Focuses on business process foundations and a preliminary look at the opportunities and challenges that implementers of e-commerce tools encounter.

BUS 261 E-COMMERCE BUSINESS VALUE/3(3-0-0)

Prerequisite: BUS 260.

Focuses on how implementation of e-commerce solutions drive changes to the business process.

BUS 281 INTERNSHIP/1-6

Prerequisite: BUS 181.

Provides continued instruction and the opportunity for students to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

COMPUTER ASSISTED DRAFTING

CAD 101 COMPUTER AIDED DRAFTING I/3(3-0-0)

Focuses on basic computer aided drafting skills using the latest release of CAD software. Includes file management, Cartesian coordinate system, drawing set-ups, drawing aids, layer usage, drawing geometric shapes, editing objects, array, text applications, basic dimensioning, and Help access.

CAD 102 COMPUTER AIDED DRAFTING II/3(3-0-0)

Focuses on advanced computer aided drafting skills using the latest release of CAD software. Includes blocks and wblocks, polylines, multilines, polyline editing, advanced editing, editing with grips, hatching, isometric drawings, dimensions and dimension variables, paper space and viewports, templates, external references, and printing/plotting.

CAD 202 – COMPUTER AIDED DRAFTING 3-D/3(3-0-0)

Focuses on construction of three-dimensional objects using the latest release of CAD software. Includes wireframe construction, surface modeling, solid modeling, extrusions, Boolean operations, 3D editing, 3D views, rendering, and 3D to 2D construction.

CAD 260 CAD PROJECT/2(2-0-0)

Prerequisite: CAD 202.

Focuses on a final computer aided drafting project in the student's area of special interest.

CARPENTRY

CAR 100 INTRODUCTION TO CARPENTRY/1

Provides a basic introduction to construction work for all crafts. This course specifically applies to construction sites.

CAR 101 BASIC SAFETY/1

An overview of safety concerns and procedures in the construction field.

CAR 102 HAND AND POWER TOOLS/1

Focuses on basic hand and power tools including stationary tools. Emphasizes a hands-on approach to proper and safe use of these tools as it applies to the construction environment and is taught in conjunction with a lab or framing class.

CAR 105 JOB SITE LAYOUT AND BLUEPRINT READING/1

Introduces blue-print reading and how they apply to the construction site. Includes in-depth introduction to site layout (materials and methods).

CAR 115 FORM & FOUNDATION SYSTEMS/1

Covers materials and methods for concrete forms and foundations. Includes various reinforcement methods such as re-bar and welded-wire fabric.

CAR 120 GENERAL CONSTRUCTION FRAMING/1

Instructs students in basic framing methods and materials utilizing a hands-on framing lab. Covers floor, wall, and roof framing.

CAR 121 FLOOR FRAMING/1

Covers framing basics as well as the procedures for laying out and constructing a wood floor using common lumber as well as engineered building materials.

CAR 122 WALL FRAMING/1

Focuses on the procedures for laying out and framing walls and ceilings, including roughing-in door and window openings, construction corners and partition Ts, bracing walls and ceilings, and applying sheathing.

CAR 125 ROOFING MATERIALS AND METHODS/1

Covers application techniques and estimation of asphalt and wood roofing products and accessories including gutters and flashing.

CAR 130 WINDOWS AND EXTERIOR DOORS/1

Describes the various types of windows, skylights, and exterior doors and provides instructions for installing them. Includes instructions for installing weather-stripping and locksets.

CAR 131 EXTERIOR TRIM/1

Teaches cornice and rake construction, corner, window and door trim, installation of soffit, frieze, fascia and similar trim items and includes estimation and proper selection.

CAR 135 THERMAL AND MOISTURE METHODS AND MATERIALS/1

Focuses on selection and installation of various types of insulating materials in walls, floors, and attics. Covers the uses and installation practices for vapor barriers and waterproofing materials.

CAR 140 STAIR CONSTRUCTION/LAYOUT/1

Covers the various types of wooden stairs used in residential and commercial construction, along with procedures for laying out stairs, cutting out stringers and installing and finishing stairs.

CAR 145 INTERIOR FINISHES--GENERAL/1

Presents an overview of interior finishes. Covers installation and finishing of drywall, suspended ceilings, and general painting and other wall covering.

CAR 146 INTERIOR FINISHES—DRYWALL CONSTRUCTION/1

Covers the use of gypsum wall board and the techniques of concealing joints and fasteners, construction methods, estimation and a variety of texture finishes.

CAR 150 INTERIOR TRIM—GENERAL/1

Covers material choices and installation techniques of various interior trim, including interior doors, baseboard, and casement. Includes an overview of additional interior trim choices.

CAR 151 INTERIOR TRIM—DOORS AND TRIM/1

Covers interior doors and trim with focus on material choices, methods of work, and estimation. Teaches in conjunction with a construction lab experience to provide application of techniques covered in classroom environment.

CAR 153 INTERIOR TRIM—CABINET/ COUNTERTOPS/1

Covers the selection/installation/terminology of factory built cabinets and countertops. Includes various types and design and examines estimation of cost.

CAR 160 FLOOR FINISHES/1

Covers installation and finishing of hardwood floors, laminate/engineered floors, and tile. Includes

discussion on advantages and disadvantages of various choices available.

CAR 170 CLINICAL: CONSTRUCTION LAB I/1-6

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 171 CLINICAL: CONSTRUCTION LAB I/1-6

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 172 CLINICAL: CONSTRUCTION LAB I/1-6

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 173 CLINICAL: CONSTRUCTION LAB I/1-6

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 175 SPECIAL TOPICS: DEED AND LAND RESEARCH/1-6

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CAR 205 ADVANCED SITE LAYOUT/2

Prerequisites: CAR 105 permission of instructor. Expands upon CAR105 and gives students a chance to explore more complex plot plans and multi-unit site layouts. Includes a more in-depth look at the blueprints and how they apply to the job-site.

CAR 215 FORM AND FOUNDATION SYSTEMS III/1

Prerequisites: CAR 115 or permission of instructor. Builds on course CAR 115 and expands on theories and concepts from the first year class. Offers opportunities to explore more complex systems and form requirements.

CAR 220 ADVANCED FRAMING—GENERAL/1

Prerequisites: CAR 120 or permission of instructor. Expands upon abilities learned in CAR 120. Utilizes a hands-on approach to allow students to study floor, wall, and roof framing.

CAR 221 ADVANCED FLOOR SYSTEMS/2

Prerequisites: CAR 121 or permission of instructor. Expands upon skills and knowledge learned in CAR 121 and focuses on an in-depth look at floor framing. Allows students to hone skills previously learned.

CAR 222 ADVANCED WALL SYSTEMS/2

Prerequisites: CAR 122 or permission of instructor. Expands upon those skills and knowledge learned in CAR 122. Covers complex wall framing issues and leadership/foreman responsibilities.

CAR 223 ADVANCED ROOFING SYSTEMS/2

Prerequisites: CAR 125 or permission of instructor. Builds on those skills learned in CAR 125. Offers an opportunity for students to hone skills and apply knowledge to more complex systems of roof framing.

CAR 240 ADVANCED STAIR LAYOUT/2

Prerequisites: CAR 140 or permission of instructor.
Expands upon the first year course emphasizing construction of residential and commercial stairs. Covers complex stairs, including curved and multi-level stair construction. Includes alternatives to stringers, and finish. Emphasizes methods and materials for balusters and rails.

CAR 250 ADVANCED INTERIOR TRIM—GENERAL/2

Prerequisites: CAR 150 or permission of instructor.
Expands upon the material covered in CAR150 and includes more advanced techniques and in-depth discussion of various material choices. Covers estimating and efficiency studies.

CAR 251 ADVANCED INTERIOR TRIM—DOORS/2

Prerequisites: CAR 151 or permission of instructor.
Expands upon material covered in CAR151. Includes in-depth study of premium interior doors and trim, including full mortise lock sets, furniture grade trim, and techniques for matching existing high-end and antique woodworking.

CAR 270 CLINICAL: CONSTRUCTION LAB II/1

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 271 CLINICAL: CONSTRUCTION LAB II/1

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 275 SPECIAL TOPICS IN CONSTRUCTION TECHNOLOGY/1-6

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CHEMISTRY

CHE 101 INTRODUCTION TO CHEMISTRY I / 5(3-4-0)

Prerequisite: MAT 090.
Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background.
This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

CHE 102 INTRODUCTION TO CHEMISTRY II 5(3-4-0)

Prerequisite: CHE 101 or permission of instructor.
Focuses on introductory organic and biochemistry (sequel to Introduction to Chemistry I). This course includes the study of hybridization of atomic orbitals for carbon, nomenclature of both organic and biochemical compounds, physical and chemical properties of various functional groups of organic chemistry, and physical and chemical properties of biochemical

compounds along with their biochemical pathways. Laboratory experiments are included.
This course is one of the Statewide Guaranteed Transfer courses.

CHE 105 CHEMISTRY IN CONTEXT/5(4-2-0)

Covers the study of measurements, matter, molecules, atoms, chemical bonding, nomenclature, energy, acids, bases, and nutrition. Course work examines chemistry in the modern world and surveys the current knowledge as well as the conceptual framework of the discipline. Chemistry as a science is explored, as is the impact of chemistry on society. This course includes laboratory experience and is designed for non-science majors.
This course is one of the Statewide Guaranteed Transfer courses.

CHE 109 GENERAL, ORGANIC AND BIOCHEMISTRY/4(3-2-0)

Focuses on fundamentals of inorganic, organic and biochemistry primarily for students in health science, non-science majors and/or students in the occupational and health related career areas. Includes the study of measurement, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base chemistry, gas laws, condensed states of matter and nuclear chemistry, nomenclature of organic compounds, properties of different functional groups, nomenclature of various biological compounds, their properties and biological pathways.

CHE 111 GENERAL COLLEGE CHEMISTRY I / 5(3-4-0)

Prerequisite: One year high school chemistry or equivalent.
Co-requisite: College algebra or permission of instructor.
Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry and thermo chemistry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory and molecular orbital theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments.
This course is one of the Statewide Guaranteed Transfer courses.

CHE 112 GENERAL COLLEGE CHEMISTRY III 5(3-4-0)

Prerequisite: CHE 111, MAT 121.
Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, electrochemistry, nuclear chemistry, and organic chemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques.
This course is one of the Statewide Guaranteed Transfer courses.

CHE 211 ORGANIC CHEMISTRY I/5(4-2-0)

Prerequisite: CHE 112.

Focuses on compounds associated with the element carbon including structure and reactions of aliphatic hydrocarbons and selected functional group families. The course covers nomenclature of organic compounds, stereochemistry, reaction mechanisms such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry.

CHE 212 ORGANIC CHEMISTRY II/5(4-2-0)

Prerequisite: CHE 211.

Continues the investigation into the chemistry of carbon-based compounds, their reactions and synthesis including the structure, physical properties, reactivities, and synthesis of organic functional groups not covered in the first semester. The course explores functional groups including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids and the reactions and reaction mechanisms of aromatic compounds. An introduction to biochemical topics may be included if time permits. Laboratory experiences demonstrate the above concepts and the laboratory techniques associated with organic chemistry.

COMPUTER INFORMATION SYSTEMS**CIS 110 INTRODUCTION TO THE PC/1(1-0-0)**

Provides the beginning computer user with hands-on experience in the elementary use of the personal computer. This course introduces the basic feature of and the terminology associated with personal computers, including topics such as database, spreadsheet, and word processing.

CIS 115 INTRODUCTION TO COMPUTER INFORMATION SYSTEMS/3(3-0-0)

Focuses on an overview of the needs for and roles of computer information systems. Emphasizes computer requirements in organizations, history, hardware functions, programming, systems development, and computer operations. Introduces computer applications.

CIS 118 INTRODUCTION TO PC APPLICATIONS/3(3-0-0)

Introduces computer concepts and components, as well as application-suite software and the Internet. Includes descriptions of and hands-on experiences with word processing, spreadsheets, databases, operating environments and other common PC application packages.

CIS 122 ADVANCED WORD PROCESSING/1(1-0-0)

Prerequisite: CIS 118 or approval of instructor. Continues to build on word processing skills.

CIS 124 INTRODUCTION TO OPERATING SYSTEMS/3(3-0-0)

Introduces concepts, terminology and hands-on skills in the use of DOS and Windows. Emphasizes navigation, file manipulation, file creation and troubleshooting.

CIS 128 WINDOWS COMPLETE/3(3-0-0)

Introduces the functions and capabilities of Microsoft Windows. Includes configuring and modifying the operating system environment.

CIS 130 INTRODUCTION TO THE INTERNET/1(1-0-0)

Enhances the student's knowledge of the Internet and its resources. Individuals learn terminology in dealing with the Internet. Includes privacy and copyright issues with information retrieved from the Internet. Students experience the use of e-commerce, multimedia and e-mail. Explores searching the Internet and credibility of information obtained with searches.

CIS131 WORD PROCESSING I/1(1-0-0)

Prerequisite: Ability to keyboard by touch.

Gives the student an introductory working knowledge of word processing. The student will create, edit, format, save, and print documents. The student will use spell check, grammar check, and thesaurus features. The student will format text, paragraphs, and pages, change margins and use the find and replace feature as well as create envelopes and labels.

CIS 132 WORD PROCESSING II/1(1-0-0)

Prerequisite: CIS 131 or permission of instructor.

Increases the student's working knowledge of word processing. In this module, the student will learn to use the merge function. The student will create multiple page reports using headers, footers, footnotes, endnotes, and page numbers. The student will create and format documents using columns and tables.

CIS 133 WORD PROCESSING III/1(1-0-0)

Prerequisite: CIS 131 & 132 or instructor permission.

Increases the student's working knowledge of word processing. In this module, the student will learn to use borders, drawing, word art, and graphics. The student will create macros, charts, outlines, styles, and fill-in forms. The student will also sort and select records. This course is the third in a series of modules.

CIS 141 PC DATABASES I/1(1-0-0)

Introduces the student to the functions of a database using selected software. It includes skills such as file creation, searches, sorts, simple editing and indexes.

CIS 142 PC DATABASES II/1(1-0-0)

Prerequisite: CIS 141.

Continues to build on database skills using appropriate software.

CIS 143 PC DATABASES III/1(1-0-0)

Prerequisite: CIS 142.

Continues to build database skills using the selected software.

CIS 145 COMPLETE PC DATABASE/3(3-0-0)

Prerequisite: CIS 118.

Explores a complete array of database skills. Includes table, query, form, and report creation and modification. Other topics include application

integration and automation of database tasks within the database.

CIS 151 PC SPREADSHEETS I/1(1-0-0)

Introduces the student to concepts and applications of an electronic spreadsheet. Topics include creating a worksheet, developing a professional looking worksheet and creating charts.

CIS 152 PC SPREADSHEETS II/1(1-0-0)

Prerequisite: CIS 151.

Continues the concepts and applications of an electronic spreadsheet learned in the introduction class. Topics include working with lists, integrating appropriate software with other Windows programs, and working with multiple worksheets and workbooks.

CIS 153 ADVANCED SPREADSHEETS/1(1-0-0)

Prerequisite: CIS 152.

Continues to build electronic spreadsheet skills. This course introduces the student to concepts and applications of an electronic spreadsheet. Topics include calculations, built-in functions, and spreadsheet design; also an introduction to graphics, database, and macros.

CIS 155 PC SPREADSHEET CONCEPTS/3(3-0-0)

Exposes the student to a wide range of uses of the electronic spreadsheet with special emphasis on using it as a business tool. Includes fundamentals and terms, creating and saving workbooks, entering and using formulas, formatting, printing, multiple-page workbooks, creating charts, entering and using functions, managing lists, and simple macros.

CIS 165 COMPLETE PRESENTATION GRAPHICS: POWERPOINT/3(3-0-0)

Focuses on the development of presentation graphics materials including graphs, charts, illustrations, and diagrams. Emphasizes effective communication through computerized presentations. Covers features of PowerPoint and effective presentation techniques.

CIS 167 DESKTOP PUBLISHING/3(3-0-0)

Prerequisite: Knowledge of word processing.

Introduces the concepts and applications for desktop publishing using word processing software. Emphasizes page layout and design with techniques for incorporating text and graphics and final production of printed documents.

CIS 240 DATABASE DESIGN AND DEVELOPMENT/3 (3-0-0)

Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language for databases.

CIS 267 MANAGEMENT OF INFORMATION SYSTEMS/3 (3-3-0)

Introduces the concepts and techniques of managing computer-based information resources. Includes hardware, software, personnel, control techniques, and the placement and integration of information systems resources within the organization.

CIS 268 SYSTEMS ANALYSIS AND DESIGN I/3(3-0-0)

Introduces the student to the materials, techniques, procedures, and human interrelations involved in developing computer information systems. Includes the systems approach, fact gathering techniques, forms design, input/output, file design, file organization, various charting techniques, system audits on controls, project management, implementation, and evaluation.

COMMUNICATIONS

COM 100 Workplace Communication/1(1-0-0)

Covers topics that teach students how to communicate effectively in the workplace. Includes listening, speaking, reading, and writing and emphasizes the importance of these four modes of communication in the workplace.

COMPUTER AND NETWORKING TECHNOLOGY

CNG 102 LOCAL AREA NETWORKS/3(3-0-0)

Introduces Local Area Networking. Focuses on discussions and demonstrations of planning, installing, and supporting networks.

CNG 120 A+ CERTIFICATION PREPARATION/4(4-0-0)

Prepares students for the CompTIA A+ certification examination. Hardware and software concepts are reviewed using A+ techniques.

CNG 128 IT ESSENTIALS II: NETWORK OPERATING SYSTEMS/5(5-0-0)

Introduces multi-user, multi-tasking networking operating systems. Focuses on characteristics of the Linux, Unix, Windows 2000, NT, and XP networking operating systems. Explores a variety of topics including installation procedures, security issues, back up procedures and remote access. The course prepares the student for both the CompTIA Server + certification and the Linux + certification.

CNG 129 NETWORK CABLING/2(2-0-0)

Prepares the student to install and troubleshoot cable, connectors, connecting blocks, patch panels and related hardware as needed to support a local area network.

CNG 160 TELECOMMUNICATIONS I/3(3-0-0)

Introduces the background needed to understand telephony products and services in the telecommunications industry. Includes hardware and devices, transmission characteristics and codes, network configurations, software and protocols.

CNG 260 CISCO NETWORK ASSOCIATE I/5(5-0-0)

Introduces network fundamentals, the OSI model and industry standards, IP addressing (subnet masks) and basic network design.

**CNG 261 CISCO NETWORK ASSOCIATE II/
5(5-0-0)**

Prerequisite: CNG 260.

Focuses on router theory and technologies, including router configurations, protocols, network management and introductory LAN switching.

**CNG 262 CISCO NETWORK ASSOCIATE III/
5(5-0-0)**

Prerequisite: CNG 261

Focuses on advanced routing and switching configurations, LAN switching, network management and advanced network design.

**CNG 263 CISCO NETWORK ASSOCIATE IV/
5(5-0-0)**

Prerequisite: CNG 262.

Focuses on project-based learning, including advanced network design projects and advanced management projects. This course and CNG 260, 261 and 262 prepare students for the CISCO Certified Network Associate (CCNA) certification exam.

COSMETOLOGY

**COS 101 INTRODUCTION TO STERILIZATION,
SANITATION AND SAFETY/1**

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Introduces the various methods of sterilization, sanitation and safety, as used in the cosmetology industry. Includes classroom study of bacteriology and the terminology dealing with cosmetology.

COS 103 SHAMPOO/RINSES/CONDITIONERS I/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Introduces various types of scalp treatments and shampoos. Enables student to recognize and treat disorders of hair and scalp. Covers product knowledge and proper massage techniques to help control disorders and to cleanse the hair and scalp. Includes terminology dealing with hair structure, scalp, and hair disorders. Provides training in a lab or classroom setting.

COS 105 INTRODUCTION TO HAIR STYLING/4

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Combines theory with the practical application of roller placement, shaping, pin-curls, finger waves, air forming and iron curling. Provides instruction in a classroom or lab setting with practical training on mannequins or models.

COS 107 INTRODUCTION TO HAIR CUTTING/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Introduces theory relevant to patron protection angles, degree 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 scissors, razor, and thinning shears. Provides training in a lab or classroom with mannequins or live models.

**COS 114 INTRODUCTION TO PERMANENT
WAVES/CHEMICAL RELAXERS/4**

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Introduces a combination of theory and practice focusing on the analysis of hair and scalp, proper equipment and product knowledge. Includes basic techniques in permanent waving and chemical relaxing. Provides training in a classroom or lab setting on mannequins or live models.

COS 116 INTRODUCTION TO HAIR COLORING/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Provides theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. Covers basic techniques and procedures for the application of hair coloring.

COS 120 INTRODUCTION TO HAIR CUTTING/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Introduction to the theory relevant to patron protection, angles, élévations, and the analysis of hair textures as related to hair cutting. Covers the proper use and care of hair cutting implements. Focuses on basic hair cutting techniques using all cutting implements. Disinfection, sanitation procedures as they relate to haircutting.

COS 121 INTERMEDIATE I: HAIRCUTTING/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Focuses on theory related facial shapes, head and body forms to determine the clients appropriate haircut. Incorporates practical applications of hair cutting techniques in specialized classes or in the supervised salon (clinical setting).

COS 125 INTRODUCTION TO SKIN CARE/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Focuses on the basic understanding of massage manipulations and the study of skin in both practical and theory applications. Emphasizes benefits derived from proper massage and a good skin care routine. Provides training in the classroom or lab setting using mannequins or models.

**COS 140 INTRODUCTION TO CHEMICAL
TEXTURE/1**

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Introduces a combination of theory and practice focusing on the analysis of hair and scalp, proper equipment and product knowledge. Includes basic techniques in permanent waving and chemical relaxing. Provides training in a classroom or lab setting on mannequins or live models.

COS 141 INTERMEDIATE I: CHEMICAL TEXTURE/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Emphasizes theory and practical application of permanent waves and chemical relaxers in specialized

classes or a supervised salon setting. Enables the student to practice different wrapping techniques required by trend styles.

COS 155 INTERMEDIATE HAIR STYLING I/2

Prerequisite: COS 105; Student must be 16 years of age and have appropriate Accuplacer scores. Focuses on accepted methods of styling hair, air forming, roll sets, finger waves and hair pressing. Concentrates on techniques in specialized classes or in a supervised salon (clinical) setting.

COS 156 INTERMEDIATE HAIR STYLING II/3

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Provides continued instruction on accepted methods of styling hair, air forming, roll set, finger waves and hair pressing. Examines techniques in specialized classes or in a supervised salon setting.

COS 157 INTERMEDIATE HAIR CUTTING I/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Focuses on theory related to facial shapes and head and body forms to determine the client's appropriate haircut. Incorporates practical applications of hair cutting techniques in specialized classes or in a supervised salon (clinical setting).

COS 158 INTERMEDIATE HAIR CUTTING II/3

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Provides continued instruction in the theory related to facial shapes and head and body forms to determine the client's appropriate haircut. Incorporates practical applications of hair cutting techniques in specialized classes or in a supervised salon (clinical setting).

COS 162 INTERMEDIATE SANITATION/SCALP TREATMENT/SHAMPOO I/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Focuses on the theory and daily practice of proper methods of sterilization, sanitation, and safety procedures as related to all phases of Cosmetology. Covers terminology and the practical training of shampooing and scalp treatments. Also includes customer service in a supervised salon (clinical) setting or specialized class.

COS 163 INTERMEDIATE SANITATION/SCALP TREATMENT/SHAMPOO II/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Focuses on the theory and the daily practice of proper methods of sterilization, sanitation, and safety procedures as related to all phases of Cosmetology. Continues with terminology and the practical training of shampooing and scalp treatments on a daily basis. Covers customer service in a supervised salon setting or specialized class.

COS 164 INTERMEDIATE PERMANENT WAVES/CHEMICAL RELAXERS I/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Emphasizes theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables the student to practice different wrapping techniques required by trend styles.

COS 165 INTERMEDIATE PERMANENT WAVES/CHEMICAL RELAXERS II/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Provides continued instruction in the theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables students to practice different wrapping techniques required by trend styles.

COS 166 INTERMEDIATE HAIR COLORING I/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Focuses on theory and practical application of color products, formulations of color, level and shades of color. Examines techniques in a specialized class or in a supervised salon setting.

COS 167 INTERMEDIATE HAIR COLORING II/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Provides continued instruction in the theory and practical application of color products, formulations of color, level and shades of color. Enables students to practice techniques in a specialized class or in a supervised salon setting.

COS 168 INTERMEDIATE SKIN CARE I/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Focuses on theory and practical application dealing with anatomy, skin disorders, skin types and facial shapes. Enables students to guide patrons in selection of proper skin care treatment and appropriate make-up.

COS 169 INTERMEDIATE SKIN CARE II/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Continues the focus on theory and practical application dealing with anatomy, skin disorders, skin types and facial shapes. Enables students to guide patrons in selection of proper skin care treatment and appropriate make-up.

COS 178 SEMINAR/WORKSHOP: COSMETOLOGY OCCUPATIONS/5

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores; instructor approval. Offers unique, intense, short-term training and is available to licensed professionals within the Barber, Cosmetology, Esthetician, and Nail Technician Occupations. Provides the opportunity to update knowledge and skills.

COS 179 SEMINAR/WORKSHOP: COSMETOLOGY OCCUPATIONS /1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores; instructor approval.

Provides unique, intense, short-term training and is available to licensed professionals within the Barber, Cosmetology, Esthetician, and Nail Technician Occupations. Provides the opportunity to update knowledge and skills.

COS 200 ADVANCED SANITATION/SCALP TREATMENT/SHAMPOO/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Provides advanced training on sterilization, sanitation, and safety in a supervised salon setting. Focuses on advanced theory and practical training of scalp treatments and shampooing. Examines advanced techniques that prepare the student for employment. Includes student preparation for the State Board Licensing Examination in sterilization, sanitation, and safety.

COS 205 ADVANCED HAIR STYLING/3

Prerequisite: COS 156; Student must be 16 years of age and have appropriate Accuplacer scores.

Focuses on theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon (clinical) work and specialized classes. Includes student preparation for the State Board Licensing Examination relating to hairstyling.

COS 207 ADVANCED HAIR CUTTING/3

Prerequisite: COS 158; Student must be 16 years of age and have appropriate Accuplacer scores.

Focuses on advanced cutting techniques using scissors, razor, thinning shears and clippers and emphasizes current fashion trends. Includes student preparation for the State Board Licensing Examination pertaining to hair cutting.

COS 214 ADVANCED PERMANENT WAVES/CHEMICAL RELAXERS/3

Prerequisite: COS 165; Student must be 16 years of age and have appropriate Accuplacer scores.

Focuses on advanced techniques to prepare the student for employment and the changes in current industry standards. Instruction is provided in specialized classes or supervised salon (clinical) setting. Includes student preparation for the State Board Licensing Examination pertaining to permanent waves and chemical relaxers.

COS 216 ADVANCED HAIR COLORING/3

Prerequisite: COS 167; Student must be 16 years of age and have appropriate Accuplacer scores.

Provides continued instruction on advanced theory and practical techniques in hair coloring. Focuses on the recognition of color problems and color correction procedures. Covers advanced techniques and product knowledge to prepare the student for employment. Prepares the student for the State Board Licensing Examination pertaining to hair coloring.

COS 220 INTERMEDIATE II: HAIRCUTTING/2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Provides continued instruction in the theory related to facial shapes, head and body forms to determine the

client's appropriate haircut. Incorporates practical applications of haircutting techniques.

COS 225 ADVANCED SKIN CARE/1

Prerequisite: COS 169; Student must be 16 years of age and have appropriate Accuplacer scores.

Provides the student with advanced techniques in massage, skin care, make-up, lash-brow tint and waxing.

COS 275 SPECIAL TOPICS/0.5-6

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

COS 278 SEMINAR/WORKSHOP: COSMETOLOGY OCCUPATIONS/0.5-6

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores; instructor approval.

Offers unique, intense, short-term training and is available to licensed professionals within the Barber, Cosmetology, Esthetician, and Nail Technician Occupations. Provides opportunities to update knowledge and skills.

COS 279 SEMINAR/WORKSHOP: COSMETOLOGY OCCUPATIONS/0.5-6

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

This course provides students with an experiential learning opportunity.

COS 285 INDEPENDENT STUDY/0.5-6

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

COS 286 INDEPENDENT STUDY/1-10

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores; 1000 contact hours in a state-approved Cosmetology program.

Allows advanced training in all course areas and allows student training for State Board of Cosmetology Licensing Examination. Hours will be arranged and credits will vary.

COS 287 SUPERVISED OCCUPATIONAL EXPERIENCE/1-3

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores; Student must have acquired 1,000 hours or better.

Prepares the student for entry into the job market by exposing them to actual experience in a licensed shop prior to graduation.

COS 288 COSMETOLOGY PRACTICUM/0.5-10

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the

business location and with the direct guidance of the instructor.

COS 289 CAPSTONE/1-3

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores; Student must have acquired 1,000 hours or better. Provides advanced training in all course areas and prepares student for the State Board of Cosmetology Licensing Exam. Hours will be arranged.

CRIMINAL JUSTICE

CRJ 101 BASIC POLICE ACADEMY I/6(6-0-0)

Prerequisite: Usually not an open enrollment course. Requires special application. Conforms to POST standards and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on simulating actual situations utilizing a lecture and laboratory mode of learning.

CRJ 102 BASIC POLICE ACADEMY II/12(12-0-0)

Prerequisite: Usually not an open enrollment course. Requires special application. Conforms to POST standards and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on simulating actual situations utilizing a lecture and laboratory mode of learning.

CRJ 105 BASIC LAW/8(8-0-0)

Prerequisite: Usually not an open enrollment course. Requires special application. Conforms to POST standards and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on United States Constitution, arrest, search and seizure, interrogation and confessions, rules of evidence, Colorado Criminal Code, Colorado Traffic Code, Colorado Children's Code, Liquor Code and controlled substances.

CRJ 106 ARREST CONTROL TECHNIQUES/3(3-0-0)

Prerequisite: Usually not an open enrollment course. Requires special application. Covers the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Emphasizes the continuum of force and de-escalation of force.

CRJ 107 LAW ENFORCEMENT DRIVING/3(3-0-0)

Prerequisite: Usually not an open enrollment course. Requires special application. Covers the skills, knowledge and abilities required for operation of a law enforcement vehicle. Emphasizes defensive driving. Enables students to demonstrate skills by driving a vehicle under simulated conditions.

CRJ 108 FIREARMS/3(3-0-0)

Prerequisite: Usually not an open enrollment course. Requires special application. Discusses the skills, knowledge and abilities necessary to safely use police firearms. Students will demonstrate skills by firing weapons on a firing range. The student will demonstrate basic safety techniques

and will explain the firearms role within the continuum of force.

CRJ 110 INTRODUCTION TO CRIMINAL JUSTICE/3(3-0-0)

Introduces a study of the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts, and corrections. Includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter-component relations and checks and balances.

CRJ 111 SUBSTANTIVE CRIMINAL LAW/3(3-0-0)

Prerequisite: CRJ 110 or equivalent. Teaches legal definitions of crime, purposes and functions of the law, historical foundations, and the limits of the criminal law.

CRJ 112 PROCEDURAL CRIMINAL LAW/3(3-0-0)

Prerequisite: CRJ 110 or equivalent. Covers constitutional and procedural considerations affecting arrest, search and seizure, post-conviction treatment, origin, development, philosophy, and constitutional basis of evidence. Focuses on degrees of evidence and rules governing admissibility, judicial decisions interpreting individual rights, and an analysis of case studies from arrest through final appeal.

CRJ 125 LAW ENFORCEMENT OPERATIONS/3(3-0-0)

Prerequisite: CRJ 110 or equivalent. 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.

CRJ 126 PATROL PROCEDURE/3(2.75-5-0)

Focuses on an in-depth study of the basic knowledge and skills required of a peace officer to safely and effectively accomplish the patrol procedure.

CRJ 135 JUDICIAL FUNCTION/3(3-0-0)

Prerequisite: CRJ 110 or equivalent. 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.

CRJ 145 CORRECTIONAL PROCESS/3(3-0-0)

Prerequisite: CRJ 110 or equivalent. 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.

CRJ 175 PHYSICAL TRAINING FOR LAW ENFORCEMENT/1 (1-0-0)

Provides the student with a basic physical fitness training needed for a law enforcement career. The program utilizes the fitness and training standards as recommended by the Cooper Institute and Fit

Force. The course is a combination of weight training and physical exercise that includes cardiovascular development through outdoor running. The instructor also covers the students' development of a healthy life style through proper nutrition and regular exercise.

CRJ 208 CRIMINAL EVIDENCE/3(3-0-0)

Reviews the basic principals of evidence in state and Federal criminal proceedings. Includes analysis of the Federal Rules of Evidence and the Colorado Evidence Rules, as well as evidentiary and procedural requirements in the courts. The course will focus on evidence questions in the context of the examination of witnesses, competency, privilege, relevancy, hearsay, burden of proof and the presentation of scientific and demonstrative evidence. Constitutional guidelines affecting evidence collection and admissibility will also be reviewed.

CRJ 210 CONSTITUTIONAL LAW/3(3-0-0)

Prerequisite: CRJ 110 or equivalent.

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.

CRJ 216 JUVENILE LAW AND PROCEDURES/3(3-0-0)

Prerequisite: CRJ 110 or equivalent.

Focuses on an in-depth analysis of the socio-legal operation of the Juvenile Justice System emphasizing the substantive and due process rights of minors. Includes analysis of legal reasoning underlying the juvenile law as it operates all levels of government.

CRJ 220 HUMAN RELATIONS AND SOCIAL CONFLICT/3(3-0-0)

Prerequisite: CRJ 110 or equivalent.

Highlights the environmental, organizational and socio-psychological dimensions of social control. Includes the study of individual attitudes, beliefs and behavior involved in role conflicts, community relations and conflict management in the social structure.

CRJ 221 COMMUNITY PROBLEM SOLVING/3(3-0-0)

Explores community oriented policing and problem solving strategies. Emphasizes the development of skills and tools necessary to implement a program. Focuses on handling stress, problem solving, and verbal communication techniques. Examines special problems that affect the police and community including victims' rights, ethics, crime prevention, gangs, ethnic intimidation, and child abuse.

CRJ 230 CRIMINOLOGY/3(3-0-0)

Prerequisite: CRJ 110 or equivalent.

Examines the question of crime causation from legal, social, political, psychological and theoretical perspectives. Covers the history and development of criminology.

CRJ 240 CRIMINAL INVESTIGATIONS/3(3-0-0)

Prerequisite: CRJ 110 or equivalent.

Introduces investigation methods and procedures from preliminary through the follow-up stages.

CRJ 245 INTERVIEW AND INTERROGATION 3(3-0-0)

Prerequisite: CRJ 110 or equivalent.

Focuses on the study of technical and legal approaches used in gathering desired information from victims, witnesses, and suspects. Examines the fundamental characteristics of questioning and the use of psychological influences.

CRJ 246 TRAFFIC INVESTIGATION/3(2.5-1-0)

Provides an overview of the skills and concepts necessary to complete an accurate investigation of a traffic collision. Emphasizes traffic management concepts, selective traffic enforcement, and safety issues.

CRJ 255 ORGANIZATIONAL MANAGEMENT OF CORRECTIONAL INSTITUTIONS/3(3-0-0)

Focuses on the history of penal and correctional management, organization of correctional institutions, management processes, leadership, control principles and implications for the future.

CRJ 275 NATIONAL PARK SERVICE

Covers the basic law enforcement standards as set by the National Park Service for certification as a Level II Seasonal Law Enforcement Officer. Emphasis will be on simulating actual situations utilizing a lecture and laboratory mode of learning./1-6

CRJ 280 INTERNSHIP/3(3-0-0)

A study which provides an opportunity to participate in a structured/supervised work setting in a recognized criminal justice agency. The intern will work under the supervision of experienced personnel with a college instructor providing coordination.

COMPUTER SCIENCE

CSC 150 VISUAL BASIC PROGRAMMING/3(3-0-0)

Introduces programming and applications development for the Microsoft Windows Programming environment using Visual Basic for Windows.

CSC 151 ADVANCED VISUAL BASIC PROGRAMMING/3(3-0-0)

Prerequisite: CSC 150 or instructor permission.

Builds on the skills learned in CSC 150. Focuses on more involved applications, work with advanced controls, and deal with additional advanced topics.

CSC 160 COMPUTER SCIENCE I: (LANGUAGE)/4(4-0-0)

Introduces students to the discipline of computer science. Covers algorithm development, data representation, logical expressions, sub-programs and input/output operations using a structured programming language. Requires intensive lab work outside of class time.

CSC 161 COMPUTER SCIENCE II: (LANGUAGE)/4(4-0-0)

Prerequisite: CSC 160 or instructor permission.

Continues the structured algorithm development and problem solving techniques begun in Computer Science I. Enables students to gain experience in the use of data structures and design of larger software

projects. Requires intensive computer laboratory experience.

**CSC 225 COMPUTER ARCHITECTURE/
ASSEMBLY LANGUAGE PROGRAMMING/4(4-0-0)**

Prerequisite: CSC 160, or equivalent or permission of instructor.

Introduces concepts of computer architecture, functional logic, design and computer arithmetic. Focuses on the mechanics of information transfer and control within a computer system. Includes symbolic programming techniques, implementing high level control structures, addressing modes and their relation to arrays, subprograms, parameters, linkage to high level languages and the assembly process.

CSC 230 C PROGRAMMING PLATFORM/3(3-0-0)

Prerequisite: MAT121 or permission of instructor.

Introduces C programming language - a 'mid level' language whose economy of expression and data manipulation features allow a programmer to deal with the computer at a 'low level.'

**CSC 231 ADVANCED C PROGRAMMING
PLATFORM/3(3-0-0)**

Prerequisite: CSC 230

Continues the study of C begun in CSC 230. Includes pointers, arrays, linked lists, stacks and queues, trees and advanced user interfaces such as menus, windows and cursor control.

CSC 236 C# PROGRAMMING/4(4-0-0)

Prerequisite: Familiarity with the C++ programming language or permission of the instructor.

Introduces the C# programming language. Covers all syntactical components of the language including arrays, structures, functions, and classes. Content will focus on writing clear properly structured, and well-documented programs using C# and object oriented methodology.

CSC 237 ADVANCED C# PROGRAMMING/4(4-0-0)

Prerequisite: Familiarity with the C++ programming language or permission of the instructor.

Continues the structured algorithm development and problem solving techniques begun in CSC 236. Introduces more advanced features of the C# programming language. Explores the relationships between C# and the .NET Framework and introduces important .NET services. Emphasizes collections, copying and comparing objects, and how the .NET framework interfaces to XML. Focuses on writing clear, properly structured, and well-documented programs using C# and object oriented methodology.

CSC 240 JAVA PROGRAMMING/3(3-0-0)

Prerequisite: MAT 106 or permission of instructor.

Introduces the Java programming language and covers basic graphics, events/procedures, user interface, and libraries. Enables the student to write and execute a variety of Java programs. Incorporates Java Applets into HTML.

**CSC 248 JAVA INTERNET PROGRAMMING/
3(3-0-0)**

Prerequisite: CSC 240 or permission of instructor.

Covers Java programming in the internet environment. Focuses on server-side programming and covers

network programming, database connectivity, server programming, multimedia and Java beans.

COMPUTER WEB BASED

CWB 106 MASTERING THE WEB/3(3-0-0)

Focuses on creating and managing web sites, the tasks and tools involved in building and maintaining a web site, and the web administrator's responsibilities and challenges.

CWB 110 COMPLETE WEB AUTHORING/3(3-0-0)

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.

CWB 178 SEMINAR/0.5-6

Provides students with an experiential learning opportunity.

CWB 221 TECHNOLOGY FOUNDATIONS FOR E-COMMERCE/3(3-0-0)

Provides the student with thorough knowledge of e-commerce architecture, relational database management systems, and HTML and Network fundamentals.

**CWB 223 ADVANCED E-COMMERCE
TECHNOLOGIES/3(3-0-0)**

Provides the student with an in-depth functional and technical overview of e-commerce architecture, practical skills and knowledge of networks and their technologies. This course specifies how network technologies and architecture integrate in the design of e-commerce applications, and how the database and its tools are utilized to support these applications.

CWB 285 INDEPENDENT STUDY/0.5-6

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

CWB 287 COOPERATIVE EDUCATION/0.5-6

Provides a college-to-work based experience that draws on combined efforts of educators and employers to produce outcomes related to student career objectives.

DENTAL HYGIENE

**DEH 101/175 PRE-CLINICAL DENTAL HYGIENE &
PRE-CLINIC SUPPLEMENTAL LECTURE/3(3-0-0)**

Prerequisite: Enrollment in the Dental Hygiene Program.

Explores basic dental hygiene theory and development of basic skills. Focuses on the application of diagnostic, preventative and therapeutic procedures and includes an introduction to dentistry and dental hygiene, dental and medical terminology, infection control, the removal of tooth deposits, patient medical and dental histories, preventive instruction and treatment planning.

DEH 102 PRE-CLINICAL DENTAL HYGIENE CARE/3(0-6-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on clinical experiences in basic dental hygiene procedures and techniques including basic instrumentation, infection control, and patient assessment skills. Students participate in a variety of clinical learning experiences.

DEH 103 DENTAL ANATOMY AND HISTOLOGY/3(2-2-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on a study of the anatomical and histological features of the teeth and other oral structures of the oral cavity. Includes terminology, anatomical landmarks, and tooth identification. Introduces histology, the embryology of the face and oral and nasal cavities, development of the teeth, and the histological features of the various components of the teeth and surrounding structures.

DEH 104 DENTAL RADIOLOGY/3(2-2-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Introduces principles of x-radiation production and safety factors; application and theory of properly exposing, processing, mounting and evaluating radiographs; identification of normal anatomic landmarks and pathologic conditions. Focuses on utilization of the laboratory in performing procedures necessary to produce quality radiographs.

DEH 111 DENTAL & MEDICAL EMERGENCIES/2(2-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Introduces the management of emergency situations in the dental office setting. Emphasizes reduction of risk for emergencies, identification and management of anxiety, and stress recognition protocol. Provides practical skills applicable to dental hygienists and the scope of responsibility for medical emergency management as dictated by state dental practice law. Covers the basic categories of emergencies, causes and management. Includes content and use of emergency kits and oxygen support systems.

DEH 112/175 DENTAL HYGIENE CLINIC LECTURE/2(2-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on prevention through patient education. Includes dental hygiene clinical procedures, such as sealants, polishing, fluoride treatments, and treatment planning as well as instrumentation instruction.

DEH 116 PREVENTIVE DENTISTRY AND SPECIAL NEEDS PATIENTS/2(2-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on application of the basic sciences in maintaining healthy oral tissues for all patient populations. Emphasizes plaque and plaque-related diseases and the basic philosophy involved in

controlling and/or preventing disease. Addresses the role of the dental hygienist in etiology, epidemiology of disease, primary preventive efforts, oral health education, nutrition and dietary measures, and preventive agents.

DEH 122/175 PERIODONTICS I/IMMUNOLOGY ASPECTS OF PERIO DISEASE/3(2-0-0)

Prerequisite: First-semester DEH course work.

Introduces the principles of periodontics. Focuses on recognition of the tissues in health and disease, macro and microanatomy of the periodontium, and histopathology of periodontal diseases and other related gingival conditions. Provides the theory and discussion of periodontal assessment, etiology, epidemiology, inflammatory process/immune response, and the AAP classification system.

DEH 123/175 HEAD AND NECK ANATOMY/HEAD & NECK LAB/2(2-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on the study of head and neck anatomy with emphasis on the muscles of mastication, the lymphatics, the TMJ, the nerve and vascular supply, and the oral cavity.

DEH 124 CLINICAL PRACTICE OF DENTAL HYGIENE I/3(3-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides clinical experience in patient skills assessment, instrumentation, and additional preventative and prophylactic clinical procedures.

DEH 125 CLINICAL PRACTICE OF DENTAL HYGIENE 1-A/3(3-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Continues patient care sessions for the performance of traditional dental hygiene treatment. Enables the student to provide treatment to periodontally involved patients utilizing advanced instrumentation and power scaling.

DEH 126 DENTAL MATERIALS/2(1-1-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides the dental hygiene student with a sound knowledge of the science of dental materials. Covers didactic and laboratory experiences and the physical properties, basic chemistry, and the clinical applications of the materials used in the practice of dentistry.

DEH 132 APPLIED PHARMACOLOGY/2(2-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Covers general pharmacology and reviews drugs that may influence the management of dental hygiene patients. Enables the student to develop sufficient knowledge of pharmacology to permit safe and effective medical evaluation of patients for dental hygiene treatment.

DEH 133 LOCAL ANESTHESIA/2(1-1-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides a working knowledge of the theory and practice of local anesthesia as applied to the practice of dentistry/dental hygiene. Emphasizes mastery of the armamentarium and techniques of regional anesthesia. Covers the knowledge and skills necessary to administer local anesthetics proficiently and safely.

DEH 138 NITROUS OXIDE/OXYGEN SEDATION/1(1-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides a working knowledge of the latest equipment and methods of nitrous oxide/oxygen sedation administration in the dental office.

DEH 170 CLINICAL PRACTICE OF DENTAL HYGIENE I/3(3-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides clinical experience in patient skills assessment, instrumentation and additional preventative and prophylactic clinical procedures.

DEH 171 CLINICAL PRACTICE OF DENTAL HYGIENE 1-A/3(0-0-6)

Prerequisite: Enrollment in the Dental Hygiene Program.

Continues patient care sessions for the performance of traditional dental hygiene treatment. Enables the student to provide treatment to periodontally involved patients utilizing advanced instrumentation and power scaling.

DEH 175 SPECIAL TOPICS/0.5-6

Exploration of current topics, issues and activities related to one or more aspects of the named discipline.

Pre-Clinic Supplemental Lecture/1(1-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Explores basic dental hygiene theory and development of basic skills. Focuses on the application of diagnostic, preventative and therapeutic procedures and includes an introduction to dentistry and dental hygiene, dental and medical terminology, infection control, the removal of tooth deposits, patient medical and dental histories, preventive instruction and treatment planning.

Immunology Aspects of Perio Disease/1(1-0-0)

Prerequisite: First-semester DEH course work. Introduces the principles of periodontics. Focuses on recognition of the tissues in health and disease, macro and microanatomy of the periodontium, and histopathology of periodontal diseases and other related gingival conditions. Provides the theory and discussion of periodontal assessment, etiology, epidemiology, inflammatory process/immune response, and the AAP classification system.

Head and Neck Lab/1(.25-1.5-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on the study of head and neck anatomy with emphasis on the muscles of mastication, the lymphatics, the TMJ, the nerve and vascular supply, and the oral cavity.

Introduction to the Dental Hygiene Profession/1(1-0-0)

An introduction to fundamental concepts and practices related to dentistry and dental hygiene in particular, and as they relate to other healthcare professions. Topics include professionalism, the history of dental hygiene, basic oral anatomy, and the dental specialties. Two hours of observation in CNCC's Dental Hygiene clinic will be required. (This course is not required for entry into the Dental Hygiene Program, but is strongly recommended.)

DEH 201 CLINIC II LECTURE/2(2-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Continues development of clinical skills with an introduction to Gracey curets, developing treatment plans for the periodontal patient and establishing maintenance schedule for oral health. Addresses special techniques for calculus detection. Allows student to demonstrate and practice through lab activities. Focuses on the patient with special needs. Student has sophomore standing in Dental Hygiene Program.

DEH 204 COMMUNITY DENTAL HEALTH I/2(2-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Course provides instruction in the concepts, methods and issues of dental public health. Emphasis is placed on evidence-based criteria for effective promotion and prevention of dental disease in the public health setting. Concepts of dental health education and program planning in the community setting are reinforced through case based materials, including methods of assessment, planning, implementation and evaluation of effectiveness. Course activities will reinforce skills in speaking and writing effectively in preparation for the subsequent community dental health field experience course.

DEH 213 GENERAL AND ORAL PATHOLOGY/3(3-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Focuses on the fundamentals of general pathology and the disease process. Covers oral pathology with emphasis on recognition and identification of pathologic conditions that most frequently occur around the oral cavity. Helps students identify appropriate referral mechanisms to render a definitive diagnosis.

DEH 225 COMMUNITY DENTAL HEALTH II: FIELD EXPERIENCE/1(0.5-0.5-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Provides practical application of community dental health theory and opportunities to conduct needs

assessments on a variety of populations. Emphasizes meeting the educational needs of specific populations through program planning, implementation and evaluation. Incorporates supervised field experiences in low-income, school and other public facilities as well as private health and education oriented organizations.

DEH 242 PERIODONTICS II/2(2-0-0)

Prerequisite: Second -semester DEH course work. Continues to explore theoretical/clinical preparations with emphasis on dental hygiene process of care, treatment planning, non-surgical treatment, evaluation of treatment, and maintenance needs of the periodontal patient. Develops research and decision making skills with use of library and Internet resources relating to risk factors, etiologic agents, and treatment modalities. Includes comprehensive periodontal assessment, supplemental diagnostics, periodontal pharmacology, and evidence based treatment planning.

DEH 270 CLINICAL PRACTICE OF DENTAL HYGIENE II/7(0-0-14)

Prerequisite: Enrollment in the Dental Hygiene Program. Covers patient care sessions for the performance of traditional dental hygiene treatment. Continues and expands periodontal patient care and special patient care sessions. Focuses on clinical competence in margination and polishing of restorations, nutrition counseling, oral irrigation, chemotherapeutics and OSHA compliance.

DEH 271 CLINICAL PRACTICE OF DENTAL HYGIENE III/7(0-0-14)

Prerequisite: Enrollment in the Dental Hygiene Program. Continues patient care session with emphasis on attaining a level of competency and efficiency for successful performance in clinical board exams and private practice. Focuses on clinical skill development in tobacco cessation, product selection, patient communications, curettage and special topics developed patient treatments. Provides elective extramural clinical sites for additional practice.

DEH 275 SPECIAL TOPICS/0.5-6

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

Dental Materials/2(1-2-0)

Prerequisite: Enrollment in the Dental Hygiene Program. Provides the dental hygiene student with a sound knowledge of the science of dental materials. Covers didactic and laboratory experiences and the physical properties, basic chemistry, and the clinical applications of the materials used in the practice of dentistry.

Clinic I-A Lecture/2(2-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program. Continues development of clinical skills with an introduction to Gracey curets, developing treatment plans for the periodontal patient and establishing maintenance schedule for oral health.

Addresses special techniques for calculus detection. Allows student to demonstrate and practice through lab activities. Focuses on the patient with special needs. Student has sophomore standing in Dental Hygiene Program.

Advanced Clinical Skills/2(2-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program. Focuses on dental hygiene theory and laboratory experiences with major topics related to advanced clinical skills, including advanced instrumentation fulcrums, root morphology, periodontal files, periodontal file sharpening, mini curettes, after five curettes, nabors probe, universal focus spray ultrasonics, and scaling implants.

National Boards Preparation/1(1-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program. Provides formal review sessions for second year dental hygiene students preparing to sit for the National Board Examination in March.

DEH 284 CLINICAL PRACTICE OF DENTAL HYGIENE III/9(0-0-14)

Prerequisite: Enrollment in the Dental Hygiene Program. Continues patient care session with emphasis on attaining a level of competency and efficiency for successful performance in clinical board exams and private practice. Focuses on clinical skill development in tobacco cessation, product selection, patient communications, curettage and special topics developed patient treatments. Provides elective extramural clinical sites for additional practice.

EARLY CHILDHOOD EDUCATION

ECE 100 PRE-LICENSING TRAINING FOR FAMILY CHILD CARE PROVIDERS/1(1-0-0)

Provides the educational training necessary to meet the hours and categories of training required by the Colorado Department of Human Services to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two. Upon completion of 15 hours of training, in the areas listed below, the student will have met the academic training requirements of the Colorado Department of Human Services, needed to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two.

ECE 101 INTRODUCTION TO EARLY CHILDHOOD EDUCATION/3(3-0-0)

Provides an introduction to Early Childhood Education. Includes the eight key areas of professional knowledge: Child Growth and Development; Health, Nutrition and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism; Administration and Supervision. Focuses on ages birth through age eight.

ECE 102 INTRODUCTION TO EARLY CHILDHOOD LAB TECHNIQUES/3(0-6-0)

Prerequisite or Corequisite: ECE 101.

Focuses on a classroom seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, to practice appropriate interactions, and to develop effective guidance and management techniques. Addresses ages birth through age 8.

ECE 103 GUIDANCE STRATEGIES FOR CHILDREN/3(3-0-0)

Explores guidance theories, applications, goals, techniques and factors that influence expectations, classroom management issues, and prosocial skills. Addresses ages birth through age 8.

ECE 104 CHILD STUDY/2(2-0-0)

Focuses on child observation aimed at integrating the student's understanding of applied child development. Emphasizes children's development from birth through the elementary years.

ECE 111 INFANT AND TODDLER THEORY & PRACTICE/3(3-0-0)

Presents an overview of theories, applications (including observations) and issues pertinent to infant and toddler development in group and/or family settings. Includes state requirements for licensing, health, safety and nutrition issues.

ECE 112 INTRO TO INFANT/TODDLER LAB TECHNIQUES/3(0-6-0)

Prerequisite or Corequisite: ECE 111.

Includes a classroom seminar and placement in an infant and/or toddler setting. The supervised placement provides the student with the opportunity to observe, to practice appropriate interactions and to develop effective guidance and nurturing techniques with infants and/or toddlers. Addresses ages prenatal through age 2.

ECE 126 ART AND THE YOUNG CHILD/2(2-0-0)

Prepares students to plan and implement a comprehensive and developmentally appropriate art program for young children. Investigates the development of self-taught art techniques in young children.

ECE 127 MUSIC/MOVEMENT FOR THE YOUNG CHILD/1(1-0-0)

Focuses on the purposes of incorporating music and movement into the early childhood curriculum. Through active participation with hands-on experiences, students work with the concepts of age and developmental appropriateness when designing fun activities with both subjects.

ECE 191 SCHOOL AGE THEORY AND PRACTICE/3(3-0-0)

Emphasizes processes for planning and implementing developmentally appropriate environments, materials, and experiences in school age programs, working with children ages 6 – 12 years of age. Provides expression and problem-solving skills in school age children.

ECE 192 SCHOOL AGE LAB TECHNIQUES/3(3-0-0)

Corequisite: ECE 191.

Incorporates lab experience in before/after school, summer camp, or elementary school programs. Focuses on planning and implementing developmentally appropriate curriculum for school age children. Includes assisting the supervising teacher in all activities.

ECE 205 NUTRITION, HEALTH AND SAFETY/3(3-0-0)

Focuses on nutrition, health and safety as a key factor for optimal growth and development of young children. Includes nutrient knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities and communication with families. Addresses ages from prenatal through age 8.

ECE 220 CURRICULUM DEVELOPMENT: METHODS AND TECHNIQUES/3(3-0-0)

Provides an overview of early childhood curriculum development. Includes processes for planning and implementing developmentally appropriate environments, materials and experiences, and quality in early childhood programs.

ECE 225 LANGUAGE AND COGNITION FOR THE YOUNG CHILD/3(3-0-0)

Prerequisite: PSY 238 or permission of instructor.

Examines theories of cognitive and language development as a framework for conceptualizing the way children acquire thinking skills. Includes observing, planning, facilitating, creative representation, and evaluating strategies within the context of play. Focuses on language, science, math, problem solving and logical thinking. Addresses ages birth through age 8.

ECE 226 CREATIVITY AND THE YOUNG CHILD/3(3-0-0)

Provides an emphasis on encouraging and supporting creative self expression and problem solving skills in children. Explores creative learning theories and research. Focuses on developmentally appropriate curriculum strategies in all developmental domains. Addresses ages birth through age 8.

ECE 236 CHILD GROWTH/DEVELOPMENT LABORATORY/1(1-0-0)

Covers the growth and development of the child from conception through the elementary school years. Emphasizes physical, cognitive, language, social and emotional domains and the concept of the whole child and how adults can provide a supportive environment. Addresses ages from prenatal through age 12.

ECE 240 ADMINISTRATION OF EARLY CHILDHOOD CARE AND EDUCATION PROGRAMS/3(3-0-0)

Examines Colorado's minimal licensing requirements, as well as optimal standards pertaining to the operation of programs for young children. Focuses on the director's administrative skills and role as a community advocate for young children. Addresses ages birth through age 12.

ECE 241 ADMINISTRATION: HUMAN RELATIONS FOR EARLY CHILDHOOD EDUCATION/3(3-0-0)

Focuses on the human relations component of an early childhood professional's responsibilities. Includes director-staff relationships, staff development, leadership strategies, parent-professional partnerships, and community interaction.

ECE 260 EXCEPTIONAL CHILD/3(3-0-0)

Presents an overview of typical and atypical developmental progression. Includes planning techniques, learning strategies, legal requirements and accommodations and adaptations that are necessary in order to create an integrated classroom environment for a child with a wide range of exceptionalities. Focuses on ages birth through age 8.

ECE 285 INDEPENDENT STUDY/1-3

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

ECE 288 PRACTICUM: EARLY CHILDHOOD EDUCATION/0.5-7

Provides students with advanced field experience opportunities in early childhood education programs.

ECONOMICS

ECO 201 PRINCIPLES OF MACROECONOMICS/3(3-0-0)

Focuses on the study of the American economy, stressing the interrelationships among household, business, and government sectors. Explores saving and investment decisions, unemployment, inflation, national income accounting, taxing and spending policies, the limits of the market and government, public choice theory, the Federal Reserve System, money and banking, and international trade.

This course is one of the Statewide Guaranteed Transfer courses.

ECO 202 PRINCIPLES OF MICROECONOMICS/3(3-0-0)

Studies the firm, the nature of cost, and how these relate to the economy as a whole. Analyzes economic models of the consumer, perfect competition, monopoly, oligopoly and monopolistic competition. Explores economic issues including market power, population growth, positive and negative externalities, income distribution, poverty and welfare, discrimination, and international economic interdependence.

This course is one of the Statewide Guaranteed Transfer courses.

ECO 245 ENVIRONMENTAL ECONOMICS/3(3-0-0)

Introduces students to contemporary environmental issues and policies meant to reduce environmental degradation. Includes market failures, analytical tools, government pollution reduction policies for air, water, and natural environments and their effectiveness.

This course is one of the Statewide Guaranteed Transfer courses.

EDUCATION

EDU 114 STUDENT BEHAVIOR MANAGEMENT FOR PARAEDUCATORS/3(3-0-0)

Provides students knowledge in the areas of behavior modification; teaching appropriate behaviors; contingency contracts; observing and recording behavior; lunchroom supervision; and playground supervision.

EDU 141 BASIC INSTRUCTIONAL TECHNIQUES FOR PARAEDUCATORS/3(3-0-0)

Provides students with knowledge in the areas of delivering instruction; grouping students; reading with students; modifying instructional materials; using technology; and utilizing adaptive equipment.

EDU 221 INTRODUCTION TO EDUCATION/3(3-0-0)

Prerequisite: College level reading and writing as demonstrated on college level placement scores. Corequisite: Field-Experience component, if not embedded in the class.

Focuses on the historical, social, political, philosophical, cultural and economic forces that shape the United States public school system. Includes current issues of educational reform, technology as it relates to education and considerations related to becoming a teacher in the state of Colorado. Special interest will be paid to the topic of diversity in the K-12 school system.

ELECTRICITY INDUSTRIAL/COMMERCIAL

EIC 105 Basics Of AC & DC Electricity/4(4-0-0)

Focuses on resistance, current, voltage and power in AC and DC circuits; measurements; computations of series and parallel circuits; circuit analysis and troubleshooting with basic test equipment.

EMERGENCY MEDICAL SERVICES

EMS 115 FIRST RESPONDER/3

Provides the student with core knowledge and skills to function in the capacity of a first responder arriving at the scene of an emergency, providing supportive care until advanced EMS help arrives.

EMS 116 FIRST RESPONDER REFRESHER/2

Prerequisite: Current First Responder Certification, and CPR card.

Provides the First Responder student with needed updates and review materials to renew and maintain the First Responder certificate.

EMS 125 EMT BASIC/9

Corequisite: EMS 170.

Enables the student after successful completion of this course to take the EMT Certification Examination subject to the requirements of the Colorado Department of Health and Environment. Includes written and practical examinations. Student must be at least 18 years of age.

EMS 126 EMT BASIC REFRESHER/3

Prerequisite: Current CPR card, current or less than 36 months expired EMT Basic certification. Provides required didactic and skills review for renewing EMT students. Accommodates the needs of the re-entry EMT student.

EMS 130 EMT INTRAVENOUS THERAPY/2

Prerequisite: Current EMT Basic certification, or proper licensure. Focuses on cognitive and skill practice as required by Colorado 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.

EMS 150 PEDIATRIC EDUCATION FOR PREHOSPITAL PROFESSIONALS/1

Prerequisite: EMT-Basic or approval from Program Coordinator. Provides the student with core knowledge and skills necessary to provide emergency care to the pediatric patient.

EMS 170 EMT BASIC CLINICAL/1

Corequisite: EMS 125 or EMS 126, depending on student status. Provides the EMT student with the clinical experience required of initial and some renewal processes.

EMS 203 EMT INTERMEDIATE I/6

Prerequisite: Valid EMT-Basic, HEP B vac, Current CPR cards, high school grad or GED, CPT 80, Math. Course provides preparatory information and is the first part of the EMT Intermediate program.

EMS 205 EMT-INTERMEDIATE II/6

Prerequisite: EMT Intermediate I. Serves as the second course for EMT Intermediate certification.

EMS 206 EMT INTERMEDIATE REFRESHER/3

Prerequisite: Current EMT I certificate, or less than 36 months expired. Meets or exceeds minimum requirements for renewing EMT Intermediate or EMT Intermediates in the re-entry program.

EMS 213 PREHOSPITAL TRAUMA LIFE SUPPORT/1

Prerequisite: EMT Basic or higher. Provides basic and/or advanced trauma life support information and skill practice.

EMS 214 BASIC TRAUMA LIFE SUPPORT/1

Prerequisite: EMT Basic or higher. Provides students with information and skill practice to treat trauma patients in the pre-hospital environment.

EMS 270 CLINICAL: EMT INTERMEDIATE/3

Prerequisite: EMS 203 and 205. Corequisite: EMS 205 as needed. Provides the EMT-I student with the required field experiences as required by the Colorado Department of Health.

ENGINEERING TECHNOLOGY**ENT 106 Print Reading for Manufacturing/3(3-0-0)**

Focuses on blueprint reading techniques related to manufacturing operations. Covers basic drafting standards, sketching, machine shop math, symbol interpretation, tolerancing, and dimensioning standards.

ENT 250 Water & Wastewater Treatment/2(2-0-0)

Focuses on the study of the operation of water and waste water facilities.

ENGLISH**ENG 030 BASIC WRITING SKILLS/2(2-0-0)**

Focuses on sentence and basic paragraph structure and development. Enables the student to review and improve grammar, usage, and punctuation skills while employing critical thinking strategies and the writing process to respond to a wide variety of writing situations.

ENG 060 WRITING FUNDAMENTALS/3(3-0-0)

Focuses on paragraph structure and development and introduces the formal essay. Enables the student to review and improve grammar, usage, and punctuation skills while employing critical thinking strategies and the writing process to respond to a wide variety of writing situations.

ENG 090: BASIC COMPOSITION/3(3-0-0)

Emphasizes critical thinking as students explore writing for specific purposes and audiences. Enables the student to develop skills required for college-level writing while reviewing paragraph structure and focusing on essay development.

ENG 121 ENGLISH COMPOSITION I/3(3-0-0)

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. *This course is one of the Statewide Guaranteed Transfer courses.*

ENG 122 ENGLISH COMPOSITION II/3(3-0-0)

Prerequisite: ENG 121. Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research. *This course is one of the Statewide Guaranteed Transfer courses.*

ENG 131 TECHNICAL WRITING I/3(3-0-0)

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.

ENG 221 CREATIVE WRITING I/3(3-0-0)

Prerequisite: Eng 121 or instructor's permission.
Teaches techniques for creative writing. Explores imaginative uses of language through creative genres (fiction, poetry, literary nonfiction) with emphasis on the student's own unique style, subject matter and needs.

ENVIRONMENTAL SCIENCE**ENV 101 INTRODUCTION TO ENVIRONMENTAL SCIENCE/4(4-0-0)**

Introduces the student to the basic concepts of ecology and the relationship between environmental problems and biological systems. Includes discussions on biology, chemistry, geology, energy, natural resources, pollution and environmental protection.

ESTHETICIAN**EST 101 INTRODUCTION TO STERILIZATION, SANITATION & SAFETY/2**

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.
Introduces the various methods of sterilization, sanitation and safety as used today in the industry. Classroom study of bacteriology and the terminology dealing with sterilization and sanitation.

EST 105 INTRODUCTION TO ELECTRICITY, CHEMISTRY & LIGHT THERAPY/4

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.
Introduces the various forms of electricity as related to estheticians. Chemistry as related to theory, products and knowledge. Light therapy theory and practical application as used in the industry.

EST 106 INTRODUCTION TO MASSAGE, SKIN CARE & MAKEUP/3

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.
Provides a basic understanding of massage manipulations and the study of skin in both theory and practical applications. Benefits derived from proper massage and a good skin care routine. Training is conducted in a classroom or lab setting using mannequins or models.

EST 151 INTERMEDIATE STERILIZATION, SANITATION & SAFETY/1

Prerequisite: EST 101; student must be 16 years of age and have appropriate Accuplacer scores.
Presents theory and the daily utilization and practice of the proper methods of sterilization, sanitation and safety. Procedures as related to all phases of the industry. Training is provided in a supervised (clinical) setting.

EST 155 INTERMEDIATE ELECTRICITY, CHEMISTRY & LIGHT THERAPY/4

Prerequisite: EST 105; Student must be 16 years of age and have appropriate Accuplacer scores.
Covers the study of Electricity, Chemistry and Light Therapy in theory and practical applications. To

enable students to analyze and improve the condition of the skin using safe and proper procedures.

EST 156 INTERMEDIATE MASSAGE, SKIN CARE & MAKEUP/3

Prerequisite: EST 106; Student must be 16 years of age and have appropriate Accuplacer scores.
Covers theory and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students help patrons select proper skin care treatment and make-up. Practical and theory application can be done in specialized classes or supervised salon (clinical) setting using models or customer service.

EST 201 ADVANCED STERILIZATION, SANITATION & SAFETY/1

Prerequisite: EST 151; Student must be 16 years of age and have appropriate Accuplacer scores.
Provides advanced training on sterilization, sanitation and safety is incorporated in a supervised salon (clinical) setting. Advanced techniques will ready the student for employment. Student preparation for the State Board Licensing Examination in theory and practical procedures for sterilization, sanitation and safety.

EST 205 ADVANCED ELECTRICITY, CHEMISTRY & LIGHT THERAPY/4

Prerequisite: EST 155; Student must be 16 years of age and have appropriate Accuplacer scores.
Provides advanced training in Electricity, Chemistry and Light Therapy is incorporated in a supervised salon (clinical) setting. Advanced techniques will ready the student for employment. Students will prepare for State Board Licensing Examination pertaining to above areas.

EST 206 ADVANCED MASSAGE, SKIN CARE & MAKEUP/3

Prerequisite: EST 156; Student must be 16 years of age and have appropriate Accuplacer scores.
Provides the student with advanced techniques in massage, skin care, make-up, lash-brow tinting and waxing. Theory and practical procedures ready the student for employment. Instruction is provided in specialized classes or in a supervised salon (clinical) setting. Student preparation for State Board Licensing Examination.

EST 230 ESTHETICIAN PREPARATION FOR STATE BOARDS/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.
Provides preparation for State Boards allows the student the opportunity to gain knowledge in the practical examination required by the Colorado Board of Barber/Cosmetology.

EST 278 ADVANCED ESTHETICIAN STUDIES/1-10

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Student must have 550 contact hours in a state-approved esthetician program.
Allows advanced training in all course areas and allows student training for State Board of Cosmetology

Licensing Examination. Hours will be arranged and credits will vary.

EST 280 INTERNSHIP/0.5-6

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.

This course provides students with the opportunity to supplement coursework with practical work experience related to their educational programs. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

EST 288 ESTHETICIAN PRACTICUM/0-10

Prerequisite: EST 201, EST 205, EST 206;

Student must be 16 years of age and have appropriate Accuplacer scores.

Allows students to continue their practice in the following courses: Sterilization, Sanitation, Safety, Electricity, Chemistry, Light Therapy, Massage, Skin Care, Make-up, and Salon Management.

FINANCE

FIN 201 PRINCIPLES OF FINANCE/3(3-0-0)

Provides factual knowledge of financial institutions and the monetary system used in the United States in relationship to the global economy. Examines tools and techniques such as capital budgeting, time value of money, analysis of financial statements, cost of capital, and risk analysis to analyze business decisions, plan and determine project and firm value, and evaluate sources of financing.

FRENCH

FRE 111 FRENCH LANGUAGE I/5(3-4-0)

Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the French language.

FRE 112 FRENCH LANGUAGE II/5(3-4-0)

Prerequisite: FRE 111 or permission of instructor.

Continues French I in the development of functional proficiency in listening, speaking, reading and writing the French language.

FRE 211 FRENCH LANGUAGE III/3(2-2-0)

Prerequisite: FRE 112 or permission of instructor.

Continues French I and II in the development of increased functional proficiency in listening, speaking, reading and writing the French language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

This course is one of the Statewide Guaranteed Transfer courses.

FRE 212 FRENCH LANGUAGE IV/3(2-2-0)

Prerequisite: FRE 211 or permission of instructor.

Continues French I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the French language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

This course is one of the Statewide Guaranteed Transfer courses.

FIRE SCIENCE TECHNOLOGY

FST 100 FIREFIGHTER I/9

Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard using IFSTA Essentials.

FST 102 INTRODUCTION TO FIRE SCIENCE AND SUPPRESSION/3(3-0-0)

Introduces the fire service organization and operation from past to present operations. Includes operation and organization of federal, state, local and private protection forces. Emphasizes extinguishing methods and equipment, special extinguishing agents, and special hazard considerations. Serves as a prerequisite for students having no previous fire suppression training or experience.

FST 107 HAZARDOUS MATERIALS OPERATIONS (LEVEL I)/3(3-0-0)

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.

FST 150 INTRODUCTION TO FIRE PREVENTION EDUCATION/3(3-0-0)

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.

FST 152 WILDLAND FIREFIGHTING/3(3-0-0)

Introduces a basic understanding of wildland fire and the strategies and tactics involved during suppression operations. Includes fire line safety, emphasizing the wildland fire orders and watch out situations. Students receive training qualifying them as Certified Wildland Firefighters under the Incident Command System, recognized by the National Wildfire Coordinating Group. Covers fire behavior, fire weather, fuel types, safety equipment and guidelines, incident size up, determining resource needs, aircraft identification and capabilities, direct vs. indirect attack, burn-out, backfiring and map reading.

FST 260 INTERMEDIATE FIRE BEHAVIOR/2(2-0-0)

Analyzes the effects of fuels, weather, topography and fire behavior on the wildland fire environment. Acquaints prospective fire line supervisors in wildland fire behavior for effective and safe fire management operations

GENERAL EQUIVALENCY DIPLOMA

GED 010 PRE-GED PREPARATION/1-12

Presents material for the student who needs review before doing GED preparation. Diagnostic tests determine skill level; help is available in writing skills, reading, and math.

GED 011 GED PREPARATION/1-12

A minimum score of 35 on individual GED Pre-tests or GED 010.

Presents material for students who need to prepare for the GED tests: Language Arts, Writing; Language Arts, Reading; Mathematics; Science; and Social Studies.

GEOGRAPHY

GEO 105 WORLD REGIONAL GEOGRAPHY/3(3-0-0)

Facilitates an understanding of spatial relationships between and among the geographic regions of the world. Includes demographic and cultural (political, economic, and historic) forces related to the physical environments of selected regions. Focuses on analysis of interrelationships between developed and developing regions, and the interactions between human societies and natural environments.

This course is one of the Statewide Guaranteed Transfer courses.

GEO 106 HUMAN GEOGRAPHY/3(3-0-0)

Introduces geographic perspectives and methods with applications to the study of human activities. Emphasizes the distribution of humans, adjustments to the natural environment, and land use practices.

This course is one of the Statewide Guaranteed Transfer courses.

GEOLOGY

GEY 111 PHYSICAL GEOLOGY/4(3-2-0)

Studies the materials of the earth, its structure, surface features and the geologic processes involved in its development. This course includes laboratory experience.

This course is one of the Statewide Guaranteed Transfer courses.

GEY 121 HISTORICAL GEOLOGY/4(3-2-0)

Prerequisite: GEY 111 or permission of instructor. Studies the physical and biological development of the earth through the vast span of geologic time. Emphasizes the investigation and interpretation of sedimentary rocks, the record of ancient environments, fossil life forms, and physical events, all within the framework of shifting crystal plates. Course includes laboratory experience.

This course is one of the Statewide Guaranteed Transfer courses.

GEY 208 GEOLOGY FIELD TRIP/3

Prerequisite: Permission of instructor.

Involves in-depth field studies into the geology of specific regions both within and outside Colorado. Trips lasting from one to several days length to study the area constitute the major activity of the course.

The specific area of investigation is indicated in the schedule of classes each time the course is offered.

GEOGRAPHIC INFORMATION SYSTEMS

GIS 101 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS/3(3-0-0)

Prerequisite: GIS 110.

Surveys the development and operation of automated geographic information systems. Focuses on the fundamentals of using computers to draw maps. Incorporates study of cartographic fundamentals such as map projections, map scales, selective display of data on maps, and various computer software applications in GIS.

GIS 105 ARCVIEW GIS/3(3-0-0)

Introduces the fundamentals of GIS including cartographic principles, hardware, and software requirements, raster, and vector data structures, and data sources, accuracy, and acquisition, spatial data databases and spatial analysis. Hands-on experience with vector data utilizing ArcView software includes use of map scales, coordinate systems, determining spatial relationships, map features and attributes, map overlays, and basic operations with databases. Student will learn to create charts and graphs and full map layouts. A final project is required.

GIS 110 INTRODUCTION TO CARTOGRAPHY/3(3-0-0)

Examines a broad range of map types, emphasizing maps as a communication system with both symbology and specific organizational hierarchies. Discussion and demonstration focuses on essential cartographic principles and practices used for designing maps, with emphasis on cartographic protocol resulting in the effective communication of both qualitative and quantitative information.

GIS 131 GLOBAL POSITIONING SYSTEMS FOR GEOGRAPHIC INFORMATION SYSTEMS/3(2-2-0)

Introduces the terminology, hardware, and technological principles of GPS. Students will receive an introduction in the fundamentals of using a basic hand-held GPS unit. Data will be integrated with pre-existing spatial data. Fundamentals of mapping and map reading will be covered. Garmin GPS units will be used initially, followed with Trimble GeoExplorers and Pathfinder Office software. Final student projects integrate GPS data within ArcView projects.

GIS 180 INTERNSHIP/0.5-6

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

GIS 205 GIS APPLICATIONS/3(3-0-0)

Prerequisite: GIS 105.

Presents a sequel to GIS 105 with a deeper look at the principles of GIS, including both raster and vector data structures, data conversion, map algebra, spatial analysis, modeling, and networks. Various ways that

GIS is currently being used in science, business, and government will also be presented. ArcView Network Analyst, Spatial Analyst, and 3D Analyst software will be utilized and a final project is required.

GIS 211 SPATIAL DATA MODELING AND ANALYSIS/4(4-0-0)

Introduces the student to a variety of techniques for modeling and analyzing spatial data in a GIS. Includes network analysis, TINs, raster grids, pattern analysis, and time series mapping.

GIS 280 INTERNSHIP/0.5-6

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

HISTORY

HIS 101 HISTORY OF WESTERN CIVILIZATION I/3(3-0-0)

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from the prehistoric era to 1650. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

This course is one of the Statewide Guaranteed Transfer courses.

HIS 102 HISTORY OF WESTERN CIVILIZATION II/3(3-0-0)

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from 1650 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

This course is one of the Statewide Guaranteed Transfer courses.

HIS 111 WORLD CIVILIZATIONS I/3(3-0-0)

Enables the student to view history up to 1500 CE in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders, to provide a better appreciation for different cultures.

This course is one of the Statewide Guaranteed Transfer courses.

HIS 112 WORLD CIVILIZATIONS II/3(3-0-0)

Enables students to view history post 1500 CE in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders to provide a better appreciation for different cultures.

This course is one of the Statewide Guaranteed Transfer courses.

HIS 201 U.S. HISTORY I/3(3-0-0)

Explores events, trends, peoples, groups, cultures, ideas, and institutions in North America and United

States history, including the multiple perspectives of gender, class, and ethnicity, between the period when Native American Indians were the sole inhabitants of North America, and the American Civil War. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline.

This course is one of the Statewide Guaranteed Transfer courses.

HIS 202 U.S. HISTORY II/3(3-0-0)

Explores events, trends, peoples, groups, cultures, ideas, and institutions in United States History, including the multiple perspectives of gender, class, and ethnicity, between the period of the American Civil War and the present. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline.

This course is one of the Statewide Guaranteed Transfer courses.

HIS 225 COLORADO HISTORY/3(3-0-0)

Presents the story of the people, society, and cultures of Colorado from its earliest Native Americans, through the Spanish influx, the explorers, the fur traders and mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state.

HIS 235 HISTORY OF THE AMERICAN WEST/3(3-0-0)

Traces the history of the American West, from the Native American cultures and the frontier experiences of America's earliest, eastern settlers, through the Trans-Mississippi West, across the great exploratory and wagon trails, and up to the present West, be it urban, ranching, reservation, resource management, or industrial. Emphasizes the north and central parts of the West.

HIS 247 CONTEMPORARY WORLD HISTORY 3(3-0-0)

Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions and nation-states from 1900 to the present. Emphasizes the interactions of global regions and nation-states.

This course is one of the Statewide Guaranteed Transfer courses.

HEALTH PROFESSIONAL

HPR 102 CPR FOR PROFESSIONALS: (LIST CERTIFICATION)/0.5

Meets the requirement for American Red Cross Professional Rescuer CPR or American Heart Association Basic Life Support for those who work in Emergency Services, Health Care and other professional areas. Material presented in the course is basic patient assessment, basic airway management, rescue breathing, and CPR for infant, children and adult patients.

HPR 103 CPR FOR PROFESSIONALS RENEWAL/0.5

Prerequisite: Current healthcare provider CPR card. Provides opportunity for currently certified CPR providers to renew certificates.

HPR 108 DIETARY NUTRITION/1(1-0-0)

Prerequisite: HWE 100 or Instructor's permission. Studies the basic principles in clinical practice involved in the assistance of health care. The course will cover factors which influence the nutritional status of individuals, methods of nutritional assessment and support, and diet modification for specific disease states.

HPR 120 ACLS/1(1-0-0)

Prerequisite: Current basic life support health care provider C certification. Presents the required material for ACLS completion. It will cover arrhythmias, medications, therapeutic modalities for life threatening arrhythmias, airway management, and other treatment modalities used in cardiac and respiratory arrest.

HPR 121 ACLS RECERTIFICATION/.5(.5-0-0)

Prerequisite: ACLS completion with current card. Presents the required material for ACLS recertification. It will cover rhythm recognition, cardiac drugs, cardiac monitors, and case based scenarios.

HPR 130 PEDIATRIC ADVANCED LIFE SUPPORT/1

Prerequisite: Current CPR card—must include child and infant CPR. Provides students the needed information and skills as required by health care agencies for pediatric emergencies.

HPR 155 INTRODUCTION TO HOME HEALTH NURSING CARE/3(3-0-0)

Introduces home health nursing from the standpoint of services provided by these agencies. Funding for home health care, community support services, role of the nurse and family, as well as documentation will be explored.

HPR 178 SEMINAR: MEDICAL TERMINOLOGY/ 1-4

Introduces the student to the structure of medical terms with emphasis on combining and using the most common prefixes, roots and suffixes. Includes terms related to clinical laboratory, diagnostic imaging, nuclear medicine and oncology, as well as major body systems. Classroom structure provides accepted pronunciation of terms and relative use in the healthcare setting.

HPR 180 PRE-DENTAL HYGIENE INTERNSHIP/ 0.5-6

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

HPR 190 BASIC EKG INTERPRETATION/2

Provides instruction for interpretation of EKG strips, anatomy and physiology of the heart, using three-lead monitoring as a guide. Twelve-lead EKG may be discussed.

HPR 217 KINESIOLOGY/4(3-2-0)

Prerequisite: BIO 201 or instructor permission. Focuses on mechanical principles of kinematics, kinetics, muscle physiology, and neurophysiology and the interaction to produce function. Joint and muscle structure and function with application is a main focus. **HUMANITIES**

HUM 103 INTRODUCTION TO FILM ART/3(3-0-0)

Studies the relationships among film's stylistic systems, narrative systems and audience reception. Students view, discuss and critically analyze a variety of films which represent key historical and aesthetic periods as well as a variety of genres and themes. The course incorporates the vocabulary stylistic systems (for instance, cinematography, editing and art direction) and narrative systems (for instance, story structure and character motivation) as both relate to the kinds of meanings a film conveys.

HUM 121 SURVEY OF HUMANITIES I/3(3-0-0)

Introduces students to the history of ideas that have defined cultures through a study of the visual arts, literature, drama, music, and philosophy. It emphasizes connections among the arts, values, and diverse cultures, including European and non-European, from the Ancient world to 1000 C.E. *This course is one of the Statewide Guaranteed Transfer courses.*

HUM 122 SURVEY OF HUMANITIES II/3(3-0-0)

Examines written texts, visual arts and musical compositions to analyze and reflect the evolution and confluence of cultures in Europe, Asia and the Americas from 800 C.E. to 1750 C.E. Any two of the three Survey of Humanities courses equal a sequence. *This course is one of the Statewide Guaranteed Transfer courses.*

HUM 123 SURVEY OF HUMANITIES III/3(3-0-0)

Examines the cultures of the 17th through the 20th centuries by focusing on the interrelationships of the arts, ideas, and history. Considers the influences of industrialism, scientific development and non-European peoples. *This course is one of the Statewide Guaranteed Transfer courses.*

HUM 163 FILM CRITICISM/3(3-0-0)

Considers different approaches to film criticism, including the journalist, humanist, auteurist, genre, social science, historical, and ideological/theoretical approaches. Students will view and analyze films applying each of the critical approaches through class discussion and other assignments.

HEALTH AND WELLNESS

HWE 100 HUMAN NUTRITION/3(3-0-0)

Introduces basic principles of nutrition with emphasis on personal nutrition. Satisfies nutrition requirement of students entering health care professions.

HWE 103 COMMUNITY FIRST AID AND CPR/1

Uses demonstration videos, instructor led practice and workbook/textbook study to prepare for certification in Adult/Child/Infant CPR and Community First Aid.

HWE 104 CPR INSTRUCTOR COURSE/1

Prerequisite: Current HCP CPR card.
Provides information for the potential CPR instructor. Course requirements, renewal information and current content are discussed. Practice teaching is included in course.

HWE 105 CPR INSTRUCTOR RENEWAL/0.5

Prerequisite: Current CPR instructor card.
Provides update information and review of CPR skills for the CPR instructor.

HWE 111 HEALTH AND FITNESS/3(3-0-0)

Studies health and fitness in the U.S. today. The course will look at personal health issues, managing stress, nutrition and healthy life styles.

HWE 175 SPECIAL TOPICS/0.5-6

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

JOURNALISM

JOU 105 INTRODUCTION TO MASS MEDIA/3(3-0-0)

Places the mass media in an historical and cultural perspective, considering the validity, integrity and influence of the media in a democracy.

JOU 106 FUNDAMENTALS OF REPORTING/3(3-0-0)

Introduces news writing, reporting and interviewing with an emphasis on clarity, accuracy, completeness, timeliness and fairness.

JOU 175 SPECIAL TOPICS/0.5-6

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

JOU 206 INTERMEDIATE NEWSWRITING AND EDITING/3(3-0-0)

Prerequisite: Placement Level Eng 121, REA 090, and JOU 106.

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.

JOU 221 NEWSPAPER DESIGN I/3(3-0-0)

Prerequisite: Level placement scores ENG 121 and REA 090.

Provides students with experience in news writing, editing, design, layout and advertising for newspaper production. Students may be required to work on the college newspaper or other news-oriented publications.

LITERATURE

LIT 115 INTRODUCTION TO LITERATURE/3(3-0-0)

Introduces students to fiction, poetry, and drama. Emphasizes active and responsive reading.
This course is one of the Statewide Guaranteed Transfer courses.

LIT 145 WOMEN IN LITERATURE AND SOCIETY/3(3-0-0)

Reviews a significant world literature from the standpoint of depiction of women in literature as a reflection of women's roles in society.

LIT 201 MASTERPIECES OF LITERATURE I/3(3-0-0)

Examines significant writings in world literature from the ancients through the Renaissance. Emphasizes careful readings and understanding of the works and their cultural backgrounds.
This course is one of the Statewide Guaranteed Transfer courses.

LIT 202 MASTERPIECES OF LITERATURE II/3(3-0-0)

Examines significant writings in world literature from the seventeenth century to the present. Emphasizes careful reading and understanding of the works and their cultural backgrounds.
This course is one of the Statewide Guaranteed Transfer courses.

LIT 205 ETHNIC LITERATURE/3(3-0-0)

Focuses on significant texts by ethnic American, including African-American, Native American, Latino/a, and Asian Americans. Emphasizes careful reading and understanding of the cultural and literary elements of the works.
This course is one of the Statewide Guaranteed Transfer courses.

LIT 211 SURVEY OF AMERICAN LITERATURE I/3(3-0-0)

Provides an overview of American literature from the Native American through the nineteenth century Romantics. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.
This course is one of the Statewide Guaranteed Transfer courses.

LIT 212 SURVEY OF AMERICAN LITERATURE II/3(3-0-0)

Provides an overview of American literature from the mid-nineteenth century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.
This course is one of the Statewide Guaranteed Transfer courses.

LIT 221 SURVEY OF BRITISH LITERATURE I / 3(3-0-0)

Provides an overview of British literature from the Anglo-Saxon period through the 17th century. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

This course is one of the Statewide Guaranteed Transfer courses.

LIT 222 SURVEY OF BRITISH LITERATURE II/3/ (3-0-0)

Provides is an overview of British literature from the 18th century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

This course is one of the Statewide Guaranteed Transfer courses.

LIT 245 LITERATURE OF THE AMERICAN WEST/3(3-0-0)

Examines works in various genres by writers of the American West. It investigates the dominant themes and social and historical backgrounds.

LIT 255 CHILDREN'S LITERATURE/3(3-0-0)

Evaluates the criteria for selecting appropriate literature for children through exploration of genres, age levels, values taught through literature, and the literary and artistic quality of various texts.

LIT 269 POPULAR LITERATURE AND CULTURE/3(3-0-0)

Explores special interests in literature, such as Detective Fiction and Science Fiction.

MANAGEMENT

MAN 200 HUMAN RESOURCE MANAGEMENT I/3(3-0-0)

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.

MAN 216 SMALL BUSINESS MANAGEMENT/ 3(3-0-0)

Examines the elements necessary for the successful formation of a new small business. It is also designed to enhance the skills of those already involved in the operation of a small business. The course includes the development of a complete small business plan.

MAN 226 PRINCIPLES OF MANAGEMENT/3(3-0-0)

Presents a survey of the principles of management. Emphasis is on the primary functions of planning, organizing, leading and controlling with a balance between the behavioral and operational approach.

MAN 227 OPERATIONS MANAGEMENT/3(3-0-0)

Covers the central role and importance of the operations function in both service and product organizations. Strategy, design, scheduling, materials

handling, inventory, production, supply chain management and distribution are covered.

MAN 241 PROJECT MANAGEMENT IN ORGANIZATIONS/3(3-0-0)

Introduces students to the planning, implementation, and control activities of project management, including project and performance evaluation, quality control and work flow analysis. Emphasis will be on the initiating, planning, executing, controlling and closing activities of project management.

MAN 287 COOPERATIVE EDUCATION/ INTERNSHIP/0.5-6

Prerequisite: MAN 226 or permission of instructor.

Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work stations which are related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

MARKETING

MAR 111 PRINCIPLES OF SALES/3(3-0-0)

Prerequisite: BUS 115

Enables the student to understand and develop ethical sales techniques and covers the role of selling in the marketing process. Areas of emphasis include behavioral considerations in the buying and selling process and sales techniques.

MAR 117 PRINCIPLES OF RETAILING/3(3-0-0)

Emphasizes the study of the basic principles and techniques of merchandising, operations, layout, store organization, site location, and customer service with an emphasis on retailing operations.

MAR 126 MERCHANDISING/3(3-0-0)

Emphasizes facility/store organization and merchandising techniques. The study of what makes a store appealing includes layout, product mix, and techniques of display.

MAR 187 COOPERATIVE EDUCATION/ INTERNSHIP/0.5-6

Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work stations which are related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

MAR 216 PRINCIPLES OF MARKETING/3(3-0-0)

Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer.

MAR 220 PRINCIPLES OF ADVERTISING/3(3-0-0)

Examines the principles and practices of advertising and its relationship to business in order to promote a

business or organization. Areas of major emphasis include advertising principles, strategies, media, copy and layout, and ethical considerations.

MAR 222 IMPLEMENTING E-COMMERCE/3(3-0-0)

Provides the student with practical skills and knowledge of e-commerce implementation methodology. Topics include strategic planning for e-commerce, project management, change management, role of technology, implementation planning and assessment. Students use case studies to examine standards and practices of businesses implementing e-commerce applications and solutions.

MAR 235 CONSUMER BEHAVIOR/3(3-0-0)

Enables the student to understand the variables that affect consumer behavior in the marketplace and the implications of this knowledge for marketing decisions and strategies.

MAR 238 MARKETING APPLICATIONS AND ANALYSIS/3(3-0-0)

Prerequisite: Marketing 216 or document passing a marketing principles course at another institution. Students explore the application of marketing variables through lecture and case analysis. Each person develops a situational analysis or marketing plan as a semester project.

MAR 240 INTERNATIONAL MARKETING/3(3-0-0)

Prerequisite: BUS 115.
Enables the student to explore the international marketing for U.S. products, and to explore the increasing competitive international environment and recent changes in the environment that have challenged U.S. business. The course is designed to make the reader an "informed observer" of the global market place as well as enabling him/her to develop skills to make marketing decisions in a global context.

MAR 278 SEMINAR/0.5-6

Provides students with an experiential learning opportunity.

MAR 285 INDEPENDENT STUDY/0.5-6

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

MATH

MAT 030 FUNDAMENTALS OF MATHEMATICS/2(2-0-0)

Prerequisite: Math Assessment.
Includes the vocabulary, operations and applications of whole numbers, decimals and basic fractions and mixed numbers.

MAT 060 PRE-ALGEBRA/3(3-0-0)

Prerequisite: MAT 030 or Math Assessment.
Further the study of fractions and mixed numbers. Also included are vocabulary, operations and applications of ratio, proportion, percent, area, perimeter, US and metric measures, integers, and an introduction to algebraic expressions and the solution of basic first-degree equations.

MAT 090 INTRODUCTORY ALGEBRA/4(4-0-0)

Prerequisite: Successful completion of MAT 060 (grade of C or better) or Math assessment.
Includes first-degree equations, inequalities, formulas, polynomials, algebraic fractions, factoring polynomials, solving quadratic equations by factoring, and applications. Coordinate geometry, graphing linear equations and inequalities, and systems of linear equations may be included.

MAT 106 SURVEY OF ALGEBRA/4(4-0-0)

Prerequisite: Successful completion of MAT 090 (Grade C or better) or assessment.
Emphasizes problem solving with further study of equations, slope, inequalities, systems of equations, polynomials, quadratic equations, rational expressions, rational exponents, radical expressions, graphing and applications. A graphing calculator or equivalent software may be utilized.

MAT 107 CAREER MATH/3(3-0-0)

Prerequisite: MAT 060 or assessment.
Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

MAT 108 TECHNICAL MATHEMATICS/4(4-0-0)

Prerequisite: MAT 060 (Grade of C or better) or assessment.
Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

MAT 120 MATHEMATICS FOR LIBERAL ARTS/4(4-0-0)

Prerequisite: ACT Math Score of 19; Accuplacer Elementary Algebra score of 85.
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.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 121 COLLEGE ALGEBRA/4(4-0-0)

Prerequisite: Survey of Algebra or equivalent competency.
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.
This course is one of the Statewide Guaranteed Transfer courses.

MAT 122 COLLEGE TRIGONOMETRY/3(3-0-0)

Prerequisite: MAT 121 or equivalent.

Covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 123 FINITE MATHEMATICS/4(4-0-0)

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.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 125 SURVEY OF CALCULUS/4(4-0-0)

Prerequisite: MAT 121 or permission of instructor.

Includes derivatives, integrals, and their applications, with attention restricted to algebraic, exponential, and logarithmic functions for business, life science and/or social science majors.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 135 INTRODUCTION TO STATISTICS/3(3-0-0)

Prerequisite: Survey of Algebra or equivalent competency.

Includes data presentation and summarization, introduction to probability concepts and distributions, statistical inference—estimation, hypothesis testing, comparison of populations, correlation and regression.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 155 INTEGRATED MATH I/3(3-0-0)

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.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 156 INTEGRATED MATH II/3(3-0-0)

Furthering 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.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 166 PRE-CALCULUS 5(5-0-0)

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.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 201 CALCULUS I/5(5-0-0)

Prerequisite: MAT 121 and MAT 122 or equivalent.

Introduces single variable calculus and analytic geometry. Includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 202 CALCULUS II/5(5-0-0)

Prerequisite: MAT 201 or permission of instructor.

Continuation of single variable calculus which will include techniques of integration, polar coordinates, analytic geometry, improper integrals, and infinite series.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 203 CALCULUS III/4(4-0-0)

Prerequisite: MAT 202 or equivalent.

Completes the traditional subject matter of the Calculus. Topics include vectors, vector-valued functions, and multivariable calculus including partial derivatives, multiple integrals, line integrals and application.

This course is one of the Statewide Guaranteed Transfer courses.

MAT 265 DIFFERENTIAL EQUATIONS/3(3-0-0)

Emphasizes techniques of problem solving and applications. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms.

This course is one of the Statewide Guaranteed Transfer courses.

METEOROLOGY**MET 150 GENERAL METEOROLOGY/4(4-0-0)**

Provides an introduction to general meteorology and atmospheric sciences. It includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Additionally, the development of weather systems, such as storm systems, hurricanes, weather fronts and cloud development will also be examined. Finally, concepts of climatology will be stressed.

This course is one of the Statewide Guaranteed Transfer courses.

MULTIMEDIA GRAPHIC DESIGN**MGD 103 PRODUCTION DESIGN/3(3-0-0)**

Explores the use of tools, computer graphics techniques and design layout principles to produce professional graphic designs. Studies include printing basics, typography and digital color systems. Students use creative thinking to solve communication and design concepts for the output process.

MUSIC

MUS 100 FUNDAMENTALS OF MUSIC/3(3-0-0)

Designed to help the beginning music student, or those students with a limited background in music theory, study the basic elements of music, including notation, rhythm, scales, key signatures, intervals and chords.

MUS 110 MUSIC THEORY I/3(3-0-0)

Prerequisite: MUS 100 or permission of instructor. Presents music fundamentals, diatonic four-part harmony, analysis, ear training, and keyboard harmony. For music majors transferring to a 4-year program.

MUS 111 MUSIC THEORY II/3(3-0-0)

Prerequisite: MUS 110. Presents chromatic four-part harmony, analysis, ear training, and keyboard harmony.

MUS 120 MUSIC APPRECIATION/3(3-0-0)

Covers the basic materials of music, musical forms, media, genres and musical periods. Emphasizes the development of tools for intelligent listening and appreciation.

This course is one of the Statewide Guaranteed Transfer courses.

MUS 121 MUSIC HISTORY I/3(3-0-0)

Studies the various periods of music history with regard to the composers, esthetics, forms, and genres of each period. Considers music from the Middle Ages through the Classical period.

This course is one of the Statewide Guaranteed Transfer courses.

MUS 122 MUSIC HISTORY II/3(3-0-0)

Studies the various periods of music history with regard to the composers, aesthetics, forms, and genres of each period. Considers music from the early Romantic period to the present.

This course is one of the Statewide Guaranteed Transfer courses.

MUS 131 MUSIC CLASS I/2

Prerequisite: Permission of instructor. Applies the fundamentals of music to the voice or specific musical instruments. This course also introduces basic techniques, repertoire, and sight-reading.

MUS 132 MUSIC CLASS II/2

Prerequisite: Permission of instructor. Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading.

MUS 133 MUSIC CLASS III/2

Prerequisite: Permission of instructor. Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading.

MUS 134 MUSIC CLASS IV/2

Prerequisite: Permission of instructor. Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading.

MUS 141 PRIVATE INSTRUCTION (SPECIFY)/1-2

Prerequisite: Class instruction or permission of the instructor. An additional fee is required. 1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits.

MUS 142 PRIVATE INSTRUCTION (SPECIFY)/1-2

Prerequisite: Class instruction or permission of the instructor. An additional fee is required. 1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits.

MUS 143 PRIVATE INSTRUCTION (SPECIFY)/1-2

Prerequisite: Class instruction or permission of the instructor. An additional fee is required. 1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits.

MUS 144 PRIVATE INSTRUCTION (SPECIFY)/1-2

Prerequisite: Class instruction or permission of the instructor. An additional fee is required. 1 credit primarily for non-music majors. 2 credits for music majors planning to transfer to 4 year school. Offers private instruction consisting of a thirty or sixty minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. May be repeated for credit more than once per individual institution policy.

MUS 151 ENSEMBLE I/1

Prerequisite: Permission of instructor. Rehearses and performs various types of musical literature.

MUS 152 ENSEMBLE II/1

Prerequisite: Permission of instructor. Rehearses and performs various types of musical literature.

MUS 153 ENSEMBLE III/1

Prerequisite: Permission of instructor.
Rehearses and performs various types of musical literature.

MUS 154 ENSEMBLE IV/1

Prerequisite: Permission of instructor.
Rehearses and performs various types of musical literature.

NAIL TECHNICIAN**NAT 101 INTRODUCTION TO STERILIZATION, SANITATION AND SAFETY/2**

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.
Introduces the various methods of sterilization, sanitation and safety as used in the manicuring profession. Classroom study of bacteriology and the terminology dealing with manicuring is also covered.

NAT 108 INTRODUCTION OF MANICURING/ PEDICURES/ARTIFICIAL NAILS/3

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.
Provides a basic introduction into the proper use of implements used in manicures, pedicures and artificial nails. Theory and practical application of proper set-up, safety, sanitation, nail shapes, anatomy, product knowledge and terminology dealing with manicures, pedicures and artificial nails is covered. Training is done in a classroom or lab setting using models or other techniques.

NAT 151 INTERMEDIATE STERILIZATION, SANITATION AND SAFETY/1

Prerequisite: NAT 101; Student must be 16 years of age and have appropriate Accuplacer scores.
Presents theory, utilization and proper methods of sterilization, sanitation and safety procedures as related to all areas of manicuring.

NAT 158 INTERMEDIATE MANICURING/ PEDICURES/ARTIFICIAL NAILS I/2

Prerequisite: NAT 108; Student must be 16 years of age and have appropriate Accuplacer scores.
Presents theory and practical application dealing with different types of manicures, pedicures and massage techniques. Theory and practical application of procedures, products, nail shapes and maintenance of artificial nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service.

NAT 159 INTERMEDIATE MANICURING/ PEDICURES/ARTIFICIAL NAILS II/2

Prerequisite: NAT 158; Student must be 16 years of age and have appropriate Accuplacer scores.
Presents theory and practical application dealing with different types of manicures, pedicures and massage techniques. Theory and practical application of procedures, products, nail shapes and maintenance of artificial nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service.

NAT 201 ADVANCED STERILIZATION, SANITATION AND SAFETY/1

Prerequisite: NAT 151; Student must be 16 years of age and have appropriate Accuplacer scores.
Provides advanced training on sterilization, sanitation and safety is incorporated in a supervised (clinical) setting. Advanced techniques will ready the student for employment. Students will prepare for the State Board Licensing, Examination on theory and practical procedures for sterilization, sanitation and safety.

NAT 208 ADVANCED MANICURING/ PEDICURES/ARTIFICIAL NAILS/4

Prerequisite: NAT 159; Student must be 16 years of age and have appropriate Accuplacer scores.
Provides advanced theory and practical application of manicures, pedicures and nail art techniques. Theory and advanced practical techniques of silk wraps, tip overlays, acrylics and product knowledge to ready the student for employment is presented. 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 manicures and pedicures is covered.

NAT 230 NAIL TECHNICIAN PREPARATION FOR STATE BOARD/1

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores.
Provides preparation for State Boards. Allows the student the opportunity to gain knowledge in the practical and/or written examination required by the Colorado Board of Barber/Cosmetology.

NAT 287 SUPERVISED OCCUPATIONAL STUDIES/1-2

Prerequisite: Student must be 16 years of age and have appropriate Accuplacer scores. Student must have acquired 200 hours or better.
Prepares the students for entry into the job market by exposing them to actual shop experiences prior to graduation. This will be achieved by placing students in licensed shops.

NAT 288 PRACTICUM/0.5-10

Prerequisite: Student must be 16 years of age.
Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

NATURAL RESOURCES**NRE 100 FOUNDATIONS OF FORESTRY/3(3-0-0)**

Presents the principles of forest science, dendrology, forest fire behavior, and silviculture principles.

NRE 102 INTRODUCTION TO NATURAL RESOURCES MANAGEMENT/3(3-0-0)

Covers an overview of our natural resources, the environmental concerns related to their management,

and the agencies in charge of management of natural resources.

NRE 103 OCEANOGRAPHIC FIELD TECHNIQUES/3(2-2-0)

Introduces working safely and efficiently from a coastal research vessel. Includes topics such as maritime terminology, positioning and navigation, basic maritime weather, shipboard sampling and measurement techniques. Includes lectures and field sessions aboard the R /V Kaholo. Required for incoming freshmen and strongly recommended for transfer students. Taught at Hawaii Pacific University.

NRE 104 FIELD WORK SAFETY TECHNIQUES/3(2-2-0)

Introduces safety skills and attitudes necessary for efficient performance of marine science field work. Topics include CPR, first aid, and lifesaving (all with certification), as well as training in snorkeling and recognition of marine hazards. Includes lectures and field sessions. Required for incoming freshmen and strongly recommended for transfer students. Taught at Hawaii Pacific University.

NRE 121 INTRODUCTION TO HYDROLOGY/3(3-0-0)

Introduces the movement of ground and surface water. Basic flow equations and graphs are used.

NRE 204 RANGE MANAGEMENT AND RESTORATION/4(4-0-0)

Prerequisite: AGY 240.

Covers management of rangelands, important plants, rangeland communities, and restoration practices to restore disturbed ecosystems. Students will learn field measurement techniques of ecosystem components.

NRE 205 WILDLIFE AND FISHERIES MANAGEMENT PRINCIPLES/3(3-0-0)

Covers theory, philosophy, and applications for study and management of wildlife and fisheries resources. Field and laboratory methods used in wildlife management also covered.

NRE 211 ENVIRONMENTAL POLICIES AND ECONOMICS/3(3-0-0)

Covers interactions, resources, economics and politics; government and environment policy. Evaluation of alternative resource use patterns and land use plans. Discussion and analysis of current environmental issues and the impact of economic growth.

NRE 219 BIOLOGICAL ISSUES IN RECLAMATION/4(2-4-0)

Addresses the biological issues of reclamation such as what constitutes an exotic species, planting practices, time tables, seed mixture selection, and preparation of soils.

NRE 221 ADVANCED HYDROLOGY/3(2-2-0)

Prerequisite: NRE 121.

Continues to expand the knowledge of hydrology by moving into the applied aspects of wetland and stream management.

NRE 226 WETLANDS MONITORING/3(2-0-2.5)

Prerequisites: ENG 131, MAT 135, BIO 154,

NRE 237.

Covers the aspect of compliance with local, state, and federal regulations, written reports, and oral reporting and the actual sampling procedures and analysis.

NRE 227 RECLAMATION SITE MONITORING/3(2-0-2.5)

Prerequisites: ENG 131, MAT 135, BIO 154, NRE 219.

Covers the aspect of compliance with local, state, and federal regulations, written reports, and oral reporting and the actual sampling procedures and analysis.

NRE 237 WETLANDS REGULATORY 4/3(2-0-5)

Prerequisite: AGY 240.

Refers to the Federal wetlands delineation training program.

NRE 238 WETLANDS REGULATORY 5/3(2-0-2.5)

Prerequisite: AGY 240, NRE 237.

Refers to the Federal wetlands delineation training program.

NRE 251 GENERAL OCEANOGRAPHY I/3(3-0-0)

Prerequisite: BIO 111/112 or CHE111/112, NRE 103/104

Note: Appears in Marine Science and Oceanography AGS program agreement as "MARS"

Provides a comprehensive introduction to modern geological and chemical oceanography. Includes earth history, plate tectonics, geophysics, geochemistry, marine sediments, the hydrosphere, physical properties of salt water, major and minor components of seawater, and ocean-atmosphere interactions. Taught at Hawaii Pacific University.

NRE 252 GENERAL OCEANOGRAPHY I LABORATORY/1(0-2-0)

Prerequisite: BIO 111/112 or CHE111/112, NRE 103/104

Note: Appears in Marine Science and Oceanography AGS program agreement as "MARS LAB"

Covers the lab work that accompanies NRE 251 which is the introduction to modern geological and chemical oceanography. Includes earth history, plate tectonics, geophysics, geochemistry, marine sediments, the hydrosphere, physical properties of salt water, major and minor components of seawater, and ocean-atmosphere interactions. Taught at Hawaii Pacific University.

NRE 260 NATURAL RESOURCE POLICY AND ADMINISTRATION/3(3-0-0)

Examines the management complex environmental and natural resource policy issues. Taking into account new developments, trends, and issues that have arisen in recent years, this course begins with the recognition that it is not the environment that needs to be managed, but human action relating to the environment.

NURSING ASSISTANT

NUA 101 CERTIFIED NURSE AIDE HEALTH CARE SKILLS/4

Prepares the student to perform the fundamental skills of the nurse aide. Basic nursing skills, restorative services, personal care skills, safety and emergency care issues are covered in theory and lab. The student will learn skills that address mental health needs as well as patient/resident/client rights.

NUA 170 NURSE ASSISTANT CLINICAL EXPERIENCE/1

Prerequisite: Successful completion of NUA 101. Applies knowledge gained from NUA 101 in a clinical setting.

NURSING

NUR 101 PHARMACOLOGY CALCULATIONS/1

Prerequisite: Acceptance into a professional nursing program.

Introduces the nursing student to the concepts and techniques of dosage calculations and medication administration by a variety of routes. Learners will apply basic math concepts to complex conversion of dosages between and among various systems of weights and volumes. Learners will apply critical thinking skills to the calculation and administration of medications by oral and parenteral (including intravenous) routes of administration.

NUR 102 ALTERATIONS IN ADULT HEALTH I/3

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Introduces the Practical Nurse to basic concepts necessary for assessing and meeting nursing care needs of the adult and older individual. The course focuses on the concepts of acute and chronic illness, pain management, fluid and electrolyte balance, perioperative care, oncology, death and dying, infection and inflammation, and shock syndromes. Common disorders of the musculoskeletal, integumentary, respiratory and reproductive systems are presented. Relevant psychosocial and ethno cultural concepts and legal and ethical implications are integrated throughout.

NUR 103 BASIC HEALTH ASSESSMENT FOR THE PRACTICAL NURSE/1

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Provides a foundation in assessment and related therapeutic communication and teaching skills within the legal role of the Practical Nurse. Information is presented to assist the learner in obtaining a health history and in performing a basic assessment on adults and older adults with predictable outcomes. Health maintenance and health promotion concepts are incorporated throughout the course.

NUR 104 ALTERATIONS IN ADULT HEALTH II/3

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Continues the concepts introduced in Alterations in Adult Health I. It introduces the learner to basic concepts necessary for assessing and meeting nursing care needs of the adult and older individual. The course focuses on the common disorders of the neurological, cardiovascular, blood, lymphatic, immune, endocrine, gastrointestinal, renal and urinary systems and the special senses. Relevant psychosocial and ethno cultural concepts are integrated throughout.

NUR 105 PRACTICAL NURSING ARTS AND SKILLS/5

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Introduces the Practical Nursing learner to the principles of basic procedures necessary in caring for clients across the lifespan with stable and predictable outcomes in selected health care settings. Emphasis is placed on use of the nursing process in providing care. Opportunities are provided in the classroom and laboratory to develop competence in the performance of nursing skills. Relevant psychosocial and ethno cultural concepts are integrated throughout. Content regarding multidisciplinary relationships, historical perspectives, and health care delivery systems is presented. (1 or more credits may be given for students completing a Community College of Colorado approved CNA program.)

NUR 111 SOCIALIZATION INTO PRACTICAL NURSING/1

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Introduces roles and responsibilities of the graduate Practical Nurse as defined by established standards, including the Colorado Nurse Practice Act. Emphasis is placed on accountability, delegation, and perspectives in health care. Career and job readiness skills are developed.

NUR 112 BASIC CONCEPTS OF PHARMACOLOGY/2

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Introduces the basic concepts of pharmacology related to the actions, therapeutic and adverse effects, interactions of drugs, drug classifications, and the basic pharmacology of commonly used medications. Emphasis is placed on nursing considerations and client education. Learners will apply knowledge gained in selected clinical settings in caring for clients across the lifespan.

NUR 113 BASIC CONCEPTS OF MATERNAL-NEWBORN NURSING/2

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Introduces the study of families experiencing childbirth. The focus is on normal pregnancy and the physiological and psychological changes during this time including the care of the normal newborn. Selected common complications are discussed. Relevant psychosocial and ethno cultural concepts are

integrated throughout. The nursing process is used as a framework to assist the learner in understanding basic maternal/newborn needs and nursing care within the role of the Practical Nurse.

NUR 114 BASIC CONCEPTS OF NURSING OF CHILDREN/2

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Provides the learner with a basic understanding of the care of both the well and sick child within the role of the Practical Nurse. Emphasis is placed on the normal growth and development from infancy to adolescence. Nursing care of common childhood conditions is discussed. Theory is related to the nursing care of the well child, the sick child in various settings, the child with special needs, and the impact of pediatric care on the family. Relevant psychosocial, ethno cultural and family concepts are integrated throughout.

NUR 115 BASIC CONCEPTS IN MENTAL HEALTH AND ILLNESS/1

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Introduces the learner to basic concepts of mental health and illness. The course focuses on clients throughout the lifespan. Emphasis is placed on mental health concepts, selected common psychiatric disorders, treatment modalities and related nursing care. This course is designed to assist the Practical Nurse in caring for clients with varied psychosocial and ethno cultural backgrounds.

NUR 170 CLINICAL I/1-6

Prerequisite: Completion or co enrollment in corresponding didactic nursing course.

Offers the clinical practicum to apply the related nursing theory.

NUR 171 CLINICAL II/1-6

Prerequisite: Completion or co enrollment in corresponding didactic nursing course.

Offers the clinical practicum to apply the related nursing theory.

NUR 172 CLINICAL III/1-6

Prerequisite: Completion or co enrollment in corresponding didactic nursing course.

Offers the clinical practicum to apply the related nursing theory.

NUR 173 CLINICAL IV/1-6

Prerequisite: Completion or co enrollment in corresponding didactic nursing course.

Offers the clinical practicum to apply the related nursing theory.

NUR 174 CLINICAL V/1-6

Prerequisite: Completion or co enrollment in corresponding didactic nursing course.

Offers the clinical practicum to apply the related nursing theory.

NUR 206 ADVANCED CONCEPTS OF MEDICAL-SURGICAL NURSING I/5

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Focuses on the role of the registered professional nurse as care provider, teacher, manager, professional, and advocate in meeting the nursing needs of adults across the life span. Utilizing the nursing process, the student is expected to integrate previous learning to assist the patient and family in achieving optimal functioning in various health care settings.

NUR 210 NURSING CARE OF COMPLEX OBSTETRICAL AND PEDIATRIC CLIENTS/5

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Prepares the professional nurse to comprehend and apply advanced concepts in care of the high-risk child bearing family and for children with complex health problems from birth through adolescence. Emphasizes special needs and complications during the perinatal experience and altered functioning, special needs, and disease processes manifested in children. The nursing process is used as a framework to attain optimal levels of maternal-newborn and pediatric health and wellness. Legal and ethical accountability are integrated throughout the course. Critical thinking skills are utilized throughout.

NUR 211 NURSING CARE OF PSYCHIATRIC CLIENTS/5

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common clinical conditions/disorders.

NUR 216 ADVANCED CONCEPTS OF MEDICAL-SURGICAL NURSING II/4

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Continues to focus on the role of the registered professional nurse as care provider, teacher, manager, professional, and advocate in meeting the complex medical and surgical health care needs of adult clients. Utilizing the nursing process, the student is expected to integrate previous learning to assist the patient and family in achieving optimal functioning in various complex health care situations and settings.

NUR 217 LEADERSHIP FOR PROFESSIONAL NURSING PRACTICE/2

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Socializes the student into the graduate registered nurse role. The focus is on the exploration and

analysis of contemporary nursing practice, current trends and issues impacting nursing care delivery. Advanced leadership and management concepts are discussed as part of the nursing role.

NUR 272 EXPANDED CLINICAL III/1-6

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Offers practical experience and continues to build upon the principles, that are expected to be understood by students in the nursing discipline.

NUR 278 SEMINAR/0.5-6

Provides students with an experiential learning experience.

NUR 288 PRACTICUM: HEALTH AND PHYSICAL ASSESSMENT FOR NURSING PRACTICE/1-3

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Develops skills of nursing assessment across the life span using effective communication, interview techniques and beginning physical assessment. The course develops critical thinking skills in assessment, data analysis and derivation of actual/potential health needs.

NUR 289 CAPSTONE: COMPREHENSIVE NURSING INTERNSHIP/2-3

Prerequisite: Successful completion of preceding required program course work or permission of program director.

Facilitates transition from student to graduate nurse through application of nursing principles and skills in an area of health care delivery. Critical thinking, life long learning, nursing process, caring, collaboration, and health teaching and promotion are emphasized.

PHYSICAL EDUCATION/1-2

Below is a partial list of physical education activity offerings:

PED 100	Beginning Golf
PED 101	Baseball
PED 102	Volleyball
PED 103	Softball
PED 104	Racquetball
PED 105	Basketball
PED 106	Tennis
PED 108	Beginning Swimming
PED 109	Advanced Swimming
PED 112	Conditioning Lab
PED 113	Fitness Concepts
PED 116	Weight Training
PED 117	Cross Training
PED 119	Fitness Circuit Training
PED 121	Step Aerobics
PED 124	Mountain Biking
PED 125	Bowling
PED 126	Water Aerobics
PED 127	Introduction to Fly Fishing
PED 129	Scuba Diving
PED 135	Intermediate Tennis

PED 136	Advanced Weight Training
PED 146	Martial Arts
PED 154	Backpacking
PED 200	Advanced Golf

VARSIITY SPORTS/1

PED 137	Men's Basketball
	Women's Basketball
	Baseball
	Softball
	Women's Cross Country
	Men's Cross Country

PHYSICAL EDUCATION & RECREATION

PER 113 INTRODUCTION TO PHYSICAL EDUCATION AND SPORT/2(2-0-0)

Focuses on the field of physical education and sports. Includes trends, precedents and their effects in the health and total wellness of those involved.

PER 126 INTRODUCTION TO COACHING/2 (2-0-0)

Acquaints the learner with the knowledge, requirements and responsibilities of coaching, including sport philosophy, sport medicine, and sport management. Fulfills requirements for ACEP Leader Level I.

PER 128 INTRODUCTION TO RECREATION/ 2(2-0-0)

Studies the history, principles, philosophy, and contemporary problems and trends of recreation and their influence upon today's American society.

PER 175 SPECIAL TOPICS/0.5-6

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PER 188 ATHLETIC TRAINING PRACTICUM I/1-3

Prerequisite: PER 231

Provides the opportunity for students to observe and gain experience in the techniques used in an athletic training room.

PER 231 INTRODUCTION TO SPORT & EXERCISE INJURY MANAGEMENT/2(2-0-0)

Offers instruction in identification and management of basic sports injuries. Enables the student to practice taping techniques, injury care and basic modes of rehabilitation following injury.

PER 250 SOCIAL RECREATION AND LEADERSHIP/3(3-0-0)

Enables the student to study effective leadership methods and techniques used in social recreation programming. Students experience actual settings of appropriate activities in community organizations with different age groups.

PER 252 PRINCIPLES OF OUTDOOR RECREATION/3(3-0-0)

Includes lecture and practical outdoor experience relating to problems and trends in outdoor recreation.

PER 253 OUTDOOR LEADERSHIP/2(2-0-0)

Introduces the development, acquisition, and application of outdoor leadership skills and knowledge. Focuses on the latest information philosophy, and techniques necessary to safely conduct outdoor programs and expeditions as an outdoor leader. Skills are applied under actual field conditions. Emphasizes minimal impact camping, wilderness ecology, judgment and decision making, group dynamics and trip logistics. These skills enhance effectiveness as an outdoor leader.

PER 260 SPORTS OFFICIATING/2(2-0-0)

Provides knowledge on basic fundamentals for all officials - how to deal with crowds and knowing the state organizations and their purposes.

PER 288 ATHLETIC TRAINING PRACTICUM II/2-3

Prerequisite: PER 188.

Provides the opportunity for students to gain advanced experience in the techniques used in an athletic training room.

PHILOSOPHY**PHI 111 INTRODUCTION TO PHILOSOPHY/3(3-0-0)**

Prerequisite: College level reading and writing skills. Introduces significant human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future, and religion.

This course is one of the Statewide Guaranteed Transfer courses.

PHI 112 ETHICS/3(3-0-0)

Prerequisite: College level reading and writing skills. Examines human life, experience, and thought in order to discover and develop the principles and values for pursuing a more fulfilled existence. Theories designed to justify ethical judgments are applied to a selection of contemporary personal and social issues.

This course is one of the Statewide Guaranteed Transfer courses.

PHI 113 LOGIC/3(3-0-0)

Prerequisite: College level reading and writing skills. Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking. Emphasizes the development of decision-making and problem-solving.

This course is one of the Statewide Guaranteed Transfer courses.

PHI 114 COMPARATIVE RELIGIONS/3(3-0-0)

Prerequisite: College level reading and writing skills. Introduces students to the similarities and differences among concepts predominant in the major world religions, comparing sociological, philosophical, and phenomenological similarities between major world faiths. It is designed to transfer to any four-year college philosophy, religious studies, or humanities department.

This course is one of the Statewide Guaranteed Transfer courses.

PHI 121 CURRENT ISSUES AND ETHICS IN DENTAL HYGIENE/1(1-0-0)

Prerequisite: Enrollment in the Dental Hygiene Program.

Discusses current issues in dental hygiene and heightens student's awareness of ethical issues and choices for action. Includes a library project and an opportunity to facilitate a discussion.

PHI 214 PHILOSOPHY OF RELIGION/3(3-0-0)

Focuses on the critical examination of the fundamental concepts, ideas, and implications of religion. Includes the nature of God, the varieties of religious experience, argument concerning God's existence, the Problem of Evil, faith and reason, religion and human destiny, and the connection between religion and ethics.

This course is one of the Statewide Guaranteed Transfer courses.

PHOTOGRAPHY**PHO 101 PHOTOGRAPHY I/3(2-2-0)**

Introduces black and white photography as a fine art medium and develops skills necessary for basic camera and lab operations.

PHO 102 PHOTOGRAPHY II/3(2-2-0)

Prerequisite: Photography 101 or demonstrated competency.

This course is a further exploration in camera and lab operations with an emphasis on individual creativity. It includes the development of a comprehensive portfolio.

PHO 202 PHOTOGRAPHY III/3(2-2-0)

Prerequisite: PHO 101 and PHO 102 or demonstrated competency.

Explores photography technique with emphasis on history, theory, and assimilation of ideas into the students' creative work. Includes the development of a comprehensive portfolio.

PHO 275 SPECIAL TOPICS/0.5-6

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PHYSICS**PHY 105 CONCEPTUAL PHYSICS/4(3-2-0)**

Focuses on mechanics, heat, properties of matter, electricity and magnetism, light and modern physics. Incorporates laboratory experience.

This course is one of the Statewide Guaranteed Transfer courses.

PHY 111 PHYSICS: ALGEBRA BASED I WITH LAB/5(4-2-0)

Prerequisite: MAT 121.

Enables the student to explore the truth about physical reality through reasoning, mathematics and experimentation. Examines kinematics, force, circular motion, energy, momentum, torque, rotational dynamics, simple harmonic motion, temperature, heat and thermodynamics. The concepts and theories presented are explored through demonstrations and

hands-on experiments. It is a general physics course that is recommended for all of the health sciences and all other interested students. Students entering engineering or one of the advance sciences should register for PHY 211.

This course is one of the Statewide Guaranteed Transfer courses.

PHY 112 PHYSICS: ALGEBRA BASED II WITH LAB/5(4-2-0)

Prerequisite: PHY 111.

Expands upon PHY 111 and covers sound waves, electric fields, electric circuits, magnetic fields, optics, and modern physics. Explores the concepts and theories presented in class through demonstrations and hands-on experiments.

This course is one of the Statewide Guaranteed Transfer courses.

PHY 211 PHYSICS: CALCULUS-BASED I WITH LAB/5(4-2-0)

Prerequisite: MAT 201.

Corequisite: MAT 122.

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.

This course is one of the Statewide Guaranteed Transfer courses.

PHY 212 PHYSICS: CALCULUS-BASED II WITH LAB/5(4-2-0)

Prerequisite: PHY 211.

Expands upon PHY 211 and examines thermodynamics, electric fields, electric circuits, magnetic fields, light and optics, and modern physics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments.

This course is one of the Statewide Guaranteed Transfer courses.

POLITICAL SCIENCE

POS 105 INTRODUCTION TO POLITICAL SCIENCE/3(3-0-0)

Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments, and processes, and international relations.

This course is one of the Statewide Guaranteed Transfer courses.

POS 111 AMERICAN GOVERNMENT/3(3-0-0)

Includes the background of the U.S. Constitution, the philosophy of American government, general principles of the Constitution, federalism, and civil liberties. Examines public opinion and citizen participation, political parties, interest groups, and the electoral process, and the structure and functions of the national government.

This course is one of the Statewide Guaranteed Transfer courses.

POS 125 AMERICAN STATE AND LOCAL GOVERNMENT/3(3-0-0)

Emphasizes the structure and function of state, county, and municipal governments including their relations with each other and with national government. Includes a study of Colorado government and politics.

POS 205 INTERNATIONAL RELATIONS/3(3-0-0)

Examines relationships among modern nation states. Topics include diplomacy, nationalism, ideologies, power and influence, conflict and cooperation, the role of non-state actors, the international economy and theoretical attempts to understand international behavior.

This course is one of the Statewide Guaranteed Transfer courses.

POS 215 CURRENT POLITICAL ISSUES/3(3-0-0)

Incorporates an in-depth analysis of critical issues in political science. Examines current topics and issues.

POS 225 COMPARATIVE GOVERNMENT/3(3-0-0)

Focuses on a comparison of the basic features of selected developed and developing countries. Topics include ideologies, political parties, interest groups, and governmental institutions.

This course is one of the Statewide Guaranteed Transfer courses.

POWER PLANT TECHNOLOGY

PPT 100 Basic Electricity/2(2-0-0)

Basic electrical theory, batteries, generators, motors, transformers, solenoids, relays, fuses, and circuit breakers are all covered in this topic. Many of the terms related to the production and use of electrical power are explained, and safe and efficient power production is emphasized.

PPT 105 Basic Plant Operation/2(2-0-0)

Provide an introduction to the major systems and components that make up a modern power plant. Students learn how electric power is produced and distributed; how boilers, turbines, and condensers operate; and what the general responsibilities of plant operators are during all phases of plant operation. Specific attention is given to the flow of water and steam through the steam cycle, how combustion occurs, types of boilers and turbines, operation of steam cycle support systems, bearings and lubrication, turbine control, pollution control, and plant safety.

PPT 110 Plant Systems/2(2-0-0)

Introduces students to operation and function of components found in typical plant systems and how water and steam flow through these systems. Students should also be familiar with the symbols used to represent various components on system diagrams and with the operator checks important to maintaining efficient operation of plant systems and components.

PPT 112 Plant Auxiliaries/3(3-0-0)

Introduces the auxiliary equipment associated with the flow of fluids through plant systems. It discusses how fluid flows through piping systems; how fluid flow is affected by valves, traps, and strainers; and how centrifugal pumps and positive displacement pumps operate. Also examined in this topic are compressors, fans, and heat exchangers.

PPT 115 Plant Instrumentation/3(3-0-0)

Introduce power plant instrumentation to the student. Emphasis will be given on the common types of instruments that measure and indicate pressure, flow, level, and temperature. Students learn how such values are transmitted to various plant locations and how to read and use piping and instrumentation diagrams (P&IDs). Coverage includes both pneumatic and electronic control systems and equipment.

PPT 116 Instrumentation and Control/3(3-0-0)

Introduces students to power plant process control. Emphasis will center on the full range of pertinent equipment. Students will learn how to use pneumatic and electronic controls, actuators, sensors, transmitters, relays, and indicators. Students are introduced to terms such as setpoint, control point, deviation, proportional band, reset, rate, span, feedback, and feedforward. Combustion control diagrams for the following systems are also explained: a typical three-element boiler drum level control system, a fuel and air flow metering and control system, a typical hotwell level control system, and a steam temperature control system.

PPT 175 Special Topics/.05-6

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PPT 180 Internship/.05-6

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

PPT 200 Power Plant Protection/4(4-0-0)

Introduces typical devices used to protect personnel and prevent damage to plant equipment. Also covered are generator, bus, and line differential protection, as well as high- and low-pressure protection. The material presented includes trip and alarm logic for chemical protection, turbine protection, boiler protection, and generator protection.

PPT 201 Plant Protection – Electrical/4(4-0-0)

Introduces typical devices used to protect personnel and prevent damage to plant equipment. Devices covered include fuses over current relays, and over- and under-voltage relays. The course covers practices for electrical protection of plant equipment and personnel.

PPT 205 Power Plant Thermodynamics/3(3-0-0)

Familiarize students with the basic laws governing heat in motion in a power plant. The course explains basic thermodynamic principles and shows how they

apply to the efficiency of plant processes. After completing this unit, trainees should be able to explain the basic principles of thermodynamics and why they are important to power plant operation. Students should also be familiar with temperature/entropy charts and explain how they are used to determine and compare the efficiency of various processes in a plant cycle. *NOTE: This course is designed to be conceptual in nature; emphasis of algebraic and/or calculus based Thermodynamics such as EGG 230 is not intended.*

PPT 210 Steam Turbines/3(3-0-0)

Explains various topics from steam turbine design, construction, and operation, including the tandem and cross-compound designs typically found in power stations to control and instrumentation systems. Other subjects covered include turbine startup, normal operations, procedures during abnormal and emergency conditions, and operator responsibilities.

PPT 215 Power Generation/3(3-0-0)

Introduces the basic elements of generator design, protection, and operation. Students are introduced to the theoretical aspects of reactive power in power systems by analyzing the inductive and capacitive components of the system, with an emphasis on megavar loading as it is affected by the excitation system. The generator's auxiliary systems, including hydrogen cooling systems, stator cooling systems, seal oil systems, and generator degassing procedures, are also introduced, and the function and types of exciters commonly found in power plants are examined.

PPT 220 Environmental Protection/2(2-0-0)

Identify a plant's effects on the environment, including air pollution controls, circulating water systems, wastewater systems, and pertinent laws and regulations. Various sources of environmental damage are covered, such as heat, chemical contamination of groundwater, excessive noise, sulfur oxides, nitrogen oxides, particulate stack emissions, unburned hydrocarbons, fuel oil spills, and coal dust. Students are also introduced to the most common types of flue scrubbers (wet and dry process), techniques for controlling nitrogen oxides, principles of filter bag house operation, and electrostatic precipitators.

PPT 275 Special Topics/0.5-6

Provides students with a vehicle to pursue in depth exploration of special topics of interest.

PPT 280 Internship/0.5-6

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

PROCESS TECHNOLOGY**PRO 100 Introduction to Process Technology/3(3-0-0)**

Provides an overview or introduction into the field of Process Operations within the process industry. The course will introduce the roles and responsibilities of

process technicians, the environment in which they work, and the equipment and systems in which they operate.

PRO 110 Safety, Health and Environment/3(3-0-0)

Provides an introduction to the field of safety, health, & environmental concerns within the process industry. Within this course, you will be introduced to various types of plant hazards, safety and environmental systems and equipment, and the regulations under which processing plants are governed.

PRO 120 Process Technology I: Equipment/4(4-0-0)

Provides an overview or introduction into the field of equipment within the process industry. This course will introduce many process industry-related equipment concepts including purpose, components, operation, and the Process Technician's role for operating and troubleshooting the equipment.

PRO 130 Instrumentation I/3(3-0-0)

Provides an introduction to the field of Instrumentation and covers process variables and the various instruments used to sense, measure, transmit and control these variables. This course also introduces control loops and the elements that are found in different types of loops, such as controllers, regulators and final control elements. The course concludes with a study of instrumentation drawings and diagrams and a unit on troubleshooting instrumentation.

PRO 131 Instrumentation II/3(3-0-0)

Introduces the student to switches, relays and annunciator systems and moves on to discuss signal conversion and transmission. Controllers, control schemes and advanced control schemes are covered at a level appropriate for the process technician. The student then moves on to learn about digital control, programmable logic control and distributed control systems before ending the course with a discussion of instrumentation power supplies, emergency shutdown systems and instrumentation malfunctions.

PRO 210 Process Technology II: Systems/4(4-0-0)

Studies the interrelationship of process equipment and process systems: arranging process equipment into basic systems; describing the purpose and function of specific process systems; explaining how factors affecting process systems are controlled under normal conditions; and recognizing abnormal process conditions. In addition, it introduces the concept of system and plant economics.

PRO 220 Process Technology III: Operations/4(4-0-0)

Provides an introduction to the field of operations within the process industry. Students will use existing knowledge of equipment, systems, and instrumentation to understand the operation of an entire unit. Students study concepts related to commissioning, normal startup, normal operations, normal shutdown, turnarounds, and abnormal situations, as well as the Process Technician's role in performing the tasks associated with these concepts within an operating unit.

PRO 230 Quality in Process Technology/3(3-0-0)

Provides an introduction to the field of Quality within the Process Industry. This course will introduce many process industry-related quality concepts including operating consistency, continuous improvement, plant economics, team skills and statistical process control (SPC).

PRO 240 Process Troubleshooting/4(4-0-0)

Provides instruction in the different types of troubleshooting techniques, procedures, and methods used to solve process problems. Topics include application of data collection and analysis, cause-effect relationships, and reasoning.

PRO 250 Oil and Gas Production I/3(3-0-0)

Familiarize the student with the duties and responsibilities of the oil and gas production technician. Specifically, students will be able to discuss the history of the oil market, concepts surrounding exploration and geology, fundamentals of drilling and well completion, and describe the operation of the equipment and systems used by the oil and gas production technician today.

PRO 255 Oil and Gas Production II/3(3-0-0)

Familiarize the student with the duties and responsibilities of the oil and gas production operations technician. Specifically, the course covers the following topics: the natural gas treatment, dehydration and compressions system and equipment; the produced water treatment and handling system and equipment; auxiliary systems and equipment; artificial lift and enhanced recovery techniques; pumping and transportation systems; safety, health and environmental considerations relative to the field of oil and gas production; and an introduction to petroleum refining and processing.

PRO 280 Internship/0.5-6

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

PSYCHOLOGY

PSY 101 GENERAL PSYCHOLOGY I/3(3-0-0)

Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning and memory. *This course is one of the Statewide Guaranteed Transfer courses.*

PSY 102 GENERAL PSYCHOLOGY II/3(3-0-0)

Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, and social psychology. *This course is one of the Statewide Guaranteed Transfer courses.*

PSY 106 HUMAN RELATIONS/3(3-0-0)

Emphasizes the development and practice of effective interpersonal skills on and off the job.

PSY 110 CAREER DEVELOPMENT/3(3-0-0)

Assists the student in recognizing their career potential, and provides tools for making realistic decisions concerning educational and occupational objectives.

PSY 116 STRESS MANAGEMENT/3(3-0-0)

Identifies the physiological, emotional and behavioral aspects of stress. Techniques of stress reduction and management are explored and applied, including nutrition, exercise, assertiveness, time management, and financial management. This course is not designed for transfer.

PSY 205 PSYCHOLOGY OF GENDER/3(3-0-0)

Examines gender comparisons in work, courtship, family life, and sexual behavior throughout the life span.

This course is one of the Statewide Guaranteed Transfer courses.

PSY 215 PSYCHOLOGY OF ADJUSTMENT/3(3-0-0)

Emphasizes personal growth and the development of interpersonal skills. Focuses on the practical application of psychological principles and theories in achieving self-understanding and personal growth.

PSY 217 HUMAN SEXUALITY/3(3-0-0)

Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health.

PSY 226 SOCIAL PSYCHOLOGY/3(3-0-0)

Prerequisite: 3 hrs General PSY, 3 hrs General SOC or instructor permission.

Focuses on the behavior of humans in social settings including attitudes, aggression, conformity, cooperation and competition, prejudice, and interpersonal attraction.

This course is one of the Statewide Guaranteed Transfer courses.

PSY 227 PSYCHOLOGY OF DEATH AND DYING/3(3-0-0)

Examines the philosophies of life and death, emphasizing dying, death, mourning, and the consideration of one's own death.

This course is one of the Statewide Guaranteed Transfer courses.

PSY 235 HUMAN GROWTH & DEVELOPMENT/3(3-0-0)

Examines human development from conception through death emphasizing physical, cognitive, emotional and psychosocial factors.

This course is one of the Statewide Guaranteed Transfer courses.

PSY 237 CHILD AND ADOLESCENT PSYCHOLOGY/3(3-0-0)

Explores human development from conception through adolescence, emphasizing physical cognitive, emotional, and psychosocial factors.

PSY 238 CHILD DEVELOPMENT/3(3-0-0)

Focuses on growth and development of the individual from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors.

This course is one of the Statewide Guaranteed Transfer courses.

PSY 245 EDUCATIONAL PSYCHOLOGY/3(3-0-0)

Focuses on the relationships between theory, research, and practice in the areas of learning, child development, motivation, and educational assessment.

PSY 247 CHILD ABUSE AND NEGLECT/3(3-0-0)

Examines the causes and effects of physical, sexual, and psychological abuse and neglect. Intervention and prevention strategies are emphasized.

PSY 249 ABNORMAL PSYCHOLOGY/3(3-0-0)

Prerequisite: 3 credits of general psychology or permission of instructor.

Examines abnormal behavior and its classification, causes, treatment, and prevention.

READING**REA 030 BASIC READING SKILLS/2(2-0-0)**

Prerequisite: Accuplacer score 20-39; Compass score 1-39.

Focuses on strategies for word attack, vocabulary development, stages of reading and basic reading comprehension.

REA 060 FOUNDATIONS OF READING/3(3-0-0)

Prerequisite: Assessment scores appropriate for placement.

Focuses on strategies for vocabulary development, improved reading comprehension, and enrichment.

REA 090/ COLLEGE PREPARATORY READING/3(3-0-0)

Prerequisite: Assessment scores appropriate for placement.

Enables the student to apply strategies for improving comprehension, developing vocabulary, and increasing rate for reading college textbooks.

SMALL BUSINESS MANAGEMENT**SBM 101 STARTING A SMALL BUSINESS/1(1-0-0)**

Provides a brief overview of various topics related to starting a small business. Some topics are types of businesses, location, image, insurance, permits, and licenses.

SBM 106 RECORDKEEPING FOR A SMALL BUSINESS /1(1-0-0)

Provides an overview of recordkeeping for a small business. Students learn basic bookkeeping skills and key recordkeeping requirements.

SBM 108 MARKETING FOR A SMALL BUSINESS/1(1-0-0)

Provides a brief overview of the marketing functions applied to a small business. Topics include planning a

marketing strategy, promoting a business, competitive analysis, and customers and prospects.

SBM 112 FINANCING A SMALL BUSINESS/1(1-0-0)

Provides a brief overview of the basics of financing a small business. Topics include sources of capital, types of business loans, and maintenance of cash flow.

SBM 175 SPECIAL TOPICS — BUSINESS: BASIC TAX FACTS/1(1-0-0)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SBM 275 SPECIAL TOPICS — CONFLICT MANAGEMENT AND NEGOTIATING/1(1-0-0)

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SCIENCE

SCI 155 INTEGRATED SCIENCE I/4(4-0-0)

Examines the nature of energy and matter, their interactions and changes, and the application of fundamental concepts to the study of our natural world. *This course is one of the Statewide Guaranteed Transfer courses.*

SCI 156 INTEGRATED SCIENCE II/4(4-0-0)

Examines earth and biological systems, living and non-living environments, through the application and refinement of fundamental energy and matter concepts. *This course is one of the Statewide Guaranteed Transfer courses.*

SOCIOLOGY

SOC 101 INTRODUCTION TO SOCIOLOGY I/3(3-0-0)

Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race. *This course is one of the Statewide Guaranteed Transfer courses.*

SOC 102 INTRODUCTION TO SOCIOLOGY II/3(3-0-0)

Examines social institutions and organizations from the macro perspective. Emphasizes issues of social change, demography, social movements, and conflicts and trends within education, religion, family, political, and economic structures. *This course is one of the Statewide Guaranteed Transfer courses.*

SOC 205 SOCIOLOGY OF FAMILY DYNAMICS/3(3-0-0)

Prerequisite: SOC 101 or consent of the instructor. Develops an understanding of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations. The stability and diversity of the family will be explored, along with current trends and some alternative lifestyles.

SOC 215 CONTEMPORARY SOCIAL PROBLEMS/3(3-0-0)

Explores current social issues that result in societal problems. It focuses on such issues as civil liberties, gender discrimination, substance abuse, crime, poverty, and social change. *This course is one of the Statewide Guaranteed Transfer courses.*

SOC 216 SOCIOLOGY OF GENDER/3(3-0-0)

Gives students the theoretical and factual background necessary to understand the phenomenon of gender stratification in American and other cultures. Students will be exposed to a history of gender stratification in human societies, theoretical explanations for this and insights into the consequences of gender differentiation in our world today. *This course is one of the Statewide Guaranteed Transfer courses.*

SOC 231 THE SOCIOLOGY OF DEVIANT BEHAVIOR/3(3-0-0)

Examines the nature, identification, and explanation of deviant categories. Theories, and philosophies as well as methods of treatment related to deviancy will also be considered. The course will study society's attempts to control, change, and institutionalize those acts, individuals or groups that a population may deem unacceptable. *This course is one of the Statewide Guaranteed Transfer courses.*

SOC 237 SOCIOLOGY OF DEATH AND DYING/3(3-0-0)

Prerequisite: ENG 090 or testing into ENG 121. Provides an opportunity to familiarize students and professionals with the needs and issues surrounding dying and death. This course will provide sociological, psychological, religious, historical and anthropological perspectives for interpreting contemporary American customs dealing with dying, death and bereavement. We will examine the professions associated with death and dying, such as hospice, funeral and crematory institutions, and medical care.

SPANISH

SPA 101 CONVERSATIONAL SPANISH I/3(2-2-0)

Offers beginning students the skills necessary to understand and speak Spanish. The material includes basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

SPA 102 CONVERSATIONAL SPANISH II/3(2-2-0)

Prerequisite: SPA 101 or permission of instructor. Offers students the skills necessary to understand and speak Spanish. The material continues to cover basic conversations patterns, expressions, and grammar.

SPA 111 SPANISH LANGUAGE I/5(4-2-0)

Deals with the development of functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and methodology will vary according to individual texts and instructors.

SPA 112 SPANISH LANGUAGE II/5(4-2-0)

Prerequisite: SPA 111 or permission of instructor.
Continues Spanish Language I in the development of functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

SPA 115 SPANISH FOR THE PROFESSIONAL I/3(2-2-0)

Prerequisite: College Level Reading.
Designed as an introduction to a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and others.

SPA 211 SPANISH LANGUAGE III/3(2-2-0)

Prerequisite: SPA 112 or permission of instructor.
Continues Spanish Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

This course is one of the Statewide Guaranteed Transfer courses.

SPA 212 SPANISH LANGUAGE IV/3(2-2-0)

Prerequisite: SPA 211 or permission of instructor.
Continues Spanish Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors.

This course is one of the Statewide Guaranteed Transfer courses.

SPEECH**SPE 115 PUBLIC SPEAKING/3(3-0-0)**

Combines the basic theory of speech communication with public speech performance skills. Emphasizes is on speech delivery, preparation, organization, support, and audience analysis.

SPE 125 INTERPERSONAL COMMUNICATION/3(3-0-0)

Examines the communication involved in interpersonal relationships occurring in family, social and career situations. Relevant concepts include self-concept, perception, listening, nonverbal communication, and conflict.

SPE 205 VOICE AND DICTION/3(3-0-0)

Studies the physiological production of the speaking voice and methods for improving the quality of the spoken word in general American speech.

SPE 226 ORAL INTERPRETATION/3(3-0-0)

Excites and exposes the student to the potential offered in the reading and performing of great literature such as is found in prose, poetry, and drama.

SPE 230 ARGUMENTATION AND DEBATE/3(3-0-0)

Prerequisite: SPE 115 or permission of instructor.
Acquaints the student with the theory of argumentation, including reasoning, evidence, refutation, critical thinking, and extemporaneous speaking. It includes practice in preparation and oral analysis of selected arguments and styles of debating.

THEATER**THE 105 INTRODUCTION TO THEATRE ARTS/3(3-0-0)**

Includes discussions, workshops, and lectures designed to discover, analyze and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism and theory.

This course is one of the Statewide Guaranteed Transfer courses.

THE 111 ACTING I/3(2-2-0)

Covers basic acting techniques and approaches including scene study, improvisation, and script analysis. It includes practical application through classroom performance.

THE 112 ACTING II/3(2-2-0)

Prerequisite: THE 111 or permission of instructor.
THE 105 is strongly advised.
Continues to explore basic acting techniques and approaches including scene study, improvisation, and intermediate script analysis. It includes practical application through classroom performance.

THE 116 TECHNICAL THEATRE/3(2-2-0)

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.

THE 131 THEATRE PRODUCTION I 3(0-6-0)

Prerequisite: ENG 060, REA 090, THE 111, and/or THE 112 or Faculty consent.
Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

THE 132 THEATRE PRODUCTION II 3(0-6-0)

Prerequisite: ENG 060, REA 090, THE 111, and/or THE 112 or Faculty consent.
Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

THE 135 STAGE MAKEUP I/2(2-0-0)

Covers makeup design and application techniques. Techniques include basic corrective, character, old age, and fantasy application.

THE 211 DEVELOPMENT OF THEATRE I/3(3-0-0)

Surveys the history and evolution of drama from Ancient Greece to the Renaissance, emphasizing all

aspects of the art from period values to analysis of dramatic literature and performance.

This course is one of the Statewide Guaranteed Transfer courses.

THE 212 DEVELOPMENT OF THEATRE II/3(3-0-0)

Surveys the history and evolution of drama from the Renaissance to the present, emphasizing all aspects of the art from period values to the analysis of dramatic literature and performance.

This course is one of the Statewide Guaranteed Transfer courses.

**THE 216 THEATRE LIGHTING AND DESIGN/
3(3-0-0)**

Prerequisite: THE 116 or permission of instructor.

Focuses on the theory and practice of stage lighting. Topics include basic electrical theory, color theories, rigging and design of lighting for the performing arts.

THE 218 READERS THEATRE/3(2-2-0)

Prerequisite: SPE 205.

Studies ensemble interpretation of literature—poetry, prose, and drama, primarily through the medium of the spoken word.

THE 231 THEATRE PRODUCTION III/3(0-6-0)

Prerequisite: ENG 060, REA 090, THE 111, and/or THE 112 or Faculty consent.

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

THE 232 THEATRE PRODUCTION IV/3(0-6-0)

Prerequisite: ENG 060, REA 090, THE 111, and/or THE 112 or Faculty consent.

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.