

Colorado Northwestern Community College Course Catalog Addendum - 2010-2011

(Addendum to the 2009-2011 Course Catalog)

This Addendum reflects changes in academic policies and programs, as well as other areas of the institution, effective for the 2010-2011 academic year.

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Colorado Northwestern Community College

2010-2011 CALENDAR

May 10-June 4		Nursing Summer Term
May 17-June 18		Aviation Maintenance Summer Term
May 17-July 23		Aviation Tech & National Park Service Academy Summer
Term		
May 31	Monday	Memorial Day (College Closed)
May 24-July 16		Dental Hygiene Summer Term
June 01-June 25		Arts and Sciences Session I
June 07-July 30		8-Week Summer Term for Craig Campus
July 5	Monday	Independence Day Holiday (College Closed)
July 06-July 30		Arts and Sciences Session II
August 16	Monday	Full-time Faculty Return
August 16-17	Monday-Tuesday	Convocation / All College Meetings/Location: Rangely Campus
August 18	Wednesday	Adjunct/New Instructor Orientation/Advisor Training
August 19	Thursday	New Students Not Previously Registered Arrive
August 20	Friday	New Student Testing/Advising
August 20	Friday	Advising/Registration for Students Not Previously Registered
August 21-August 22	Saturday-Sunday	Mandatory New Student Orientation on Rangely Campus
August 22	Sunday	Continuing Students Arrive
August 22	Sunday	Mandatory All Student Meeting
August 23	Monday	First Day of Classes
August 25	Wednesday	Last Day to Register for Semester-Length Classes
September 6	Monday	Labor Day (College Closed)
September 09	Thursday	Last Day to Add (Instructor Approval)/Drop Semester-
Length		Classes
October 18-22	Monday-Friday	Mid-Term Week
November 19	Friday	Last Day to Withdraw From Semester-Length Classes
November 22-26	Monday-Friday	Thanksgiving Holiday for Faculty/Students
November 25	Thursday	Thanksgiving Holiday for Staff (College Closed)
November 29-December 3	Monday-Friday	Pre-Registration for Spring Semester
December 13-15	Monday-Wednesday	Finals
December 13-17	Monday-Friday	Assessment Week
December 15	Wednesday	Semester Ends 10:00 pm
December 16	Thursday	Residence Halls Close - 01:00 pm
December 17	Friday	Grades Due from Instructors - 12:00 noon
December 27-January 03	Monday-Monday	Semester Break (College Closed)
January 4	Tuesday	Staff Return
January 6	Thursday	New Students Arrive/Testing/Orientation
January 6	Thursday	Full-Time Faculty Return
January 7	Friday	Advising/Registration
January 09	Sunday	Previously Registered Students Arrive
January 10	Monday	First Day of Classes
January 12	Wednesday	Last Day to Register for Semester-Length Classes
January 27	Thursday	Last Day to Add (Instructor Approval)/Drop Semester-
Length		Classes
February 28-March 4	Monday-Friday	Mid-Term Week
March 14-18	Monday-Friday	Spring Break for Faculty/Students (Staff Present)
March 28	Monday	Pre-Registration for Summer/Fall Semesters Begins
April 12	Tuesday	Last Day to Withdraw From Semester-Length Classes
April 14	Thursday	Honors Banquet 6:00pm (Rangely Campus)
April 29	Friday	Honors Banquet 6:00pm (Craig Campus)
May 2-4	Monday-Wednesday	Finals
May 2-6	Monday-Friday	Assessment Week
May 4	Wednesday	Semester Ends 10:00 pm
May 5	Thursday	Residence Halls Close - 01:00 pm (unless graduating)
May 6	Friday	Grades Due from Instructors - 12:00 noon
May 6	Friday	Pinning Ceremony for Nursing 6:00pm (Craig Campus)
May 6	Friday	Wings Ceremony for Aviation at 7:00pm
May 7	Saturday	Pinning Ceremony for Dental Hygiene at 9:00am

TUITION AND FEES SCHEDULE 2010 - 2011



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

See the 2010 Fall Class Schedule for more information. (Effective May 01, 2010)

TUITION

In-State tuition (resident with COF).....	\$ 96.25 per credit hour
In-State Tuition (resident without COF).....	\$158.25 per credit hour
Out-of-State Tuition (nonresident).....	\$190.75 per credit hour
CCC Online Courses (resident with COF)	\$170.15 per credit hour
CCC Online Courses (resident without COF)	\$232.15 per credit hour
CCC Online Courses (Out-of-State).....	\$259.30 per credit hour

Additional Tuition for High-Cost Programs

Nursing (NUR).....	\$ 44.00 per credit hour
Dental Hygiene (DEH).....	\$ 92.60 per credit hour
Aviation Maintenance (AMT).....	\$ 92.60 per credit hour
Aviation Flight Technology (AVT).....	\$132.40 per credit hour

FEES

College Fee

Student Government Fee.....	\$ 2.49 per credit hour
Student Activity Fee	\$ 5.04 per credit hour

Other Charges

Registration Fee (all students—non-refundable)	\$ 11.45 per semester
Medium- and High-Cost Course CIP fee.....	\$ 6.05 per credit hour
CISCO Course Fee.....	\$ 16.60 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*

Ross Hall Double	\$1,153.00
*Ross Hall Single	\$1,725.00
Holland Hall Single	\$1,403.00
Nichols Hall Double	\$ 779.00
Nichols Hall Single	\$1,153.00

*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	\$1,782.00/semester
15 meals per week + Bronco points.....	\$1,782.00/semester
14 meals per week	\$1,693.00/semester

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

Financial Assistance

Colorado Northwestern Community College has changed the Institutional Grants and Scholarships beginning with the 2010-2011 (found on pages 21 & 22 of the current Course Catalog).

CNCC Promise Scholarship

Colorado residents who attend CNCC- Rangely Campus, and live on campus, will receive the CNCC Promise Scholarship based on the following –

Criteria: 2.0 high school GPA \$1,000/year

Renewable for the 2nd year based on 24 credits with minimum cumulative GPA of 2.0

Criteria: 2.5 high school GPA \$1,500/year

Renewable for the 2nd year based on 24 credits with minimum cumulative GPA of 2.5

Transferring to CNCC? Eligibility based on completion of minimum of 12 transfer credits and GPA of 2.0

Presidential Honors Scholarship (Limit – 2 per year; must be graduating senior)

Criteria: Valedictorian/Salutatorian and minimum 3.75 GPA

Value: \$2,000 per year plus on-campus, double-occupancy room

Renewable for the 2nd year based on 30 credits with minimum cumulative 3.50 GPA

Presidential Scholarship (Limit – 5 per year; must be graduating senior)

Criteria: Top 15% of high school graduating class and minimum 3.5 GPA

Value: \$2,000 per year

Renewable for the 2nd year based on 30 credits with minimum cumulative 3.25 GPA

Vision 2010 - Learning Communities Scholarship (Contact us for a separate Application)

Students looking for a unique learning opportunity and environment and who have a strong desire to develop skills required for future success – Leadership, Work Ethic, Life Skills, and Citizenship, are invited to apply for this scholarship. Students, who are awarded the scholarship, will become part of a learning community, and participate with their peers in an intensive, multi-faceted two year experience, rarely available to community college students.

Criteria: A minimum 2.5 cumulative high school GPA; ACT or SAT scores or Accuplacer test scores that demonstrate preparedness for college-level course work. Full-time enrollment in a transfer track program, such as an Associate of Arts or Associate of Science.

Value: \$2,000 per year

Renewable for the 2nd year with continued participation in the Learning Community; minimum Cumulative GPA of 2.0

All scholarships noted above are based on full-time enrollment at CNCC. Scholarship recipients must be degree-seeking.

No changes have been made to the Athletic Grant programs or to the Federal or State programs listed in the current catalog.

Academic Regulations

CNCC had made an addition to our **Instructional Delivery Methods** (found on page 30 of the 2009-2011 Course Catalog).

Virtual Classroom (VC) Instruction is a cutting-edge, educational opportunity for students to enroll in classes from any location where internet access is available. The virtual classroom is a simple concept: Put the instructor in one place, the students elsewhere—wherever it's convenient—and let the class begin. Instructor and students meet in a virtual classroom using the Elluminate Live!

Elluminate Live! is a virtual environment optimized for learning. Elluminate supports featuring high-quality voice over the Internet, robust interactive functionality, and supports multiple platforms and low-bandwidth connectivity. Elluminate Live! provides high-quality audio, multi-point video, polling, quizzes, whiteboard, application sharing, file sharing, rich media plus recording.

The **Academic Dishonesty** section, found on pages 35 & 36 of the 2009-2011 catalog, and the Academic Appeals Procedure, found on page 36 & 37, have been completely updated as follows:

Academic Integrity

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

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

Cheating

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

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

Plagiarism

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

Actions Taken Against Academic Dishonesty

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

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

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

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

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

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

Applying for Re-Admission after Suspension for Academic Dishonesty:

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

Academic Appeals Procedure:

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

Timelines for Submission of an Appeal:

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

Academic Appeal Process:

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

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

Note: Appeals/grievances of a non-academic nature are filed with the Dean of Student Support Services (Rangely) or the Dean of Instruction (Craig) in accordance with current student grievance procedures. **Graduation Requirements** (found on page 37) included the requirement for all degree and certificate seeking students to complete AAA 101 in order to graduate. This requirement has been removed for all new incoming students in the 2010-2011 academic year.

Additions to the State Guaranteed General Education Transfer Courses

These courses have been added to the list found on page 39 of the 2009-2011 Course Catalog.

AGE 102	Agriculture Economics	HIS 225	Colorado History
AGR 260	World Interdependence: Population and Food	HIS 236	U.S. History Since 1945
ANT 108	Archaeology of World Rock Artifacts	HIS 243	History of Modern China
ANT 201	Intro to Forensic Anthropology	HIS 244	History of Latin America
BIO 208	General College Microbiology	HIS 245	U.S. in the World
BIO 220	General Zoology	HIS 249	History of Islamic Civilizations
BIO 221	Botany	HIS 255	The Middle Ages
DAN 125	History of Dance I	HIS 260	U. S. Foreign Relations History
ENV 101	Intro to Environmental Science	NRE 251	General Oceanography I
GEO 111	Physical Geography-Landforms	SOC 207	Environmental Sociology
GEO 112	Physical Geography: Weather and Climate	SOC 218	Sociology of Diversity
HIS 208	American Indian History	SOC 237	Sociology of Death and Dying
HIS 215	Women in U.S. History	WST 225	Perspectives on Women and Social Changes
		WST 240	Goddesses and Women of the Ancient World

Program Worksheets have been updated for all programs to remove the AAA 101 graduation requirement. Changes have also been made to the AA and AS in the elective area. The AGS math requirement has been updated to reflect MAT 107 or higher.

ACADEMIC TRANSFER PROGRAMS

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Associate of Arts Degree in Business Administration.....	10
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ASSOCIATE OF ARTS LIBERAL ARTS

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	<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 COM 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 COM _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
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, 225; 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, 204, 215, 261, 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, 107, 111; PSY 101, 102, 205, 217, 226, 227, 235, 238, 249; 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	_____ _____	_____ _____	_____ _____	_____ _____
21	<u>ELECTIVES – 22 credits</u>				
<u>ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AA COURSE LIST BELOW.</u> (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:					
AAA (101, 109), 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, MAN226, MAR 216, MAT (120 or above), MUS, NRE 102, PED (2 credits maximum), PER, PHI, PHO, PHY POS, PSY, RUS, SCI, 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.)				

ASSOCIATE OF ARTS

For the State-wide Articulation in

BUSINESS

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	<u>GENERAL EDUCATION CORE – 40 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 COM _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
6	<u>ARTS AND HUMANITIES (Select 2 courses)</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; WAYS OF THINKING: PHI 111, 112, 113	_____ _____	_____ _____	_____ _____	_____ _____
8	<u>MATHEMATICS</u> College Algebra MAT 121 OR Finite Mathematics MAT 123 Survey of Calculus	MAT _____ MAT 125	_____ _____	_____ _____	_____ _____
9	<u>SOCIAL/BEHAVIORAL SCIENCES</u> HIS 101, 102, 201, or 202 Principles of Macroeconomics Principles of Microeconomics	HIS _____ ECO 201 ECO 202	_____ _____ _____	_____ _____ _____	_____ _____ _____
8	<u>PHYSICAL AND LIFE SCIENCES (Select 2 courses):</u> AST 101, 102; BIO 105, 111, 112, 201, 202, 204; CHE 101, 102, 105, 111, 112; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212, SCI 155, 156	_____ _____	_____ _____	_____ _____	_____ _____
20	<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.)

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

Required Credits	<u>GENERAL EDUCATION CORE – 39credits</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 COM _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
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; ENV 101; GEY 111, 121; MET 150; PHY 105, 111, 112, 211, 212; SCI 155, 156	_____ _____	_____ _____	_____ _____	_____ _____
22	<u>ELECTIVES – 22 credits</u> <u>ELECTIVES FROM OTHER ACADEMIC COURSES APPROVED IN THE AS COURSE LIST BELOW.</u> (The list of approved courses for electives excludes remedial courses and limits vocational courses)				
	A minimum of 15 credit hours may be chosen from the following: AST, BIO (above 105), CHE, ENV 101, GEY, MAT (121 or above), NRE 251, PHY	_____ _____	_____ _____	_____ _____	_____ _____
	*A maximum of 6 credit hours can be chosen from the following: AGY, ANT, ART, ASC, AST, BIO, BUS 115, 216,217,226; CAD 101, 110, 233; CHE, CIS 118, 124; COM, CRJ 110, 200;ECO, EEG 101, 260, 261;EDU 221, GIS, HPR 102, 178, 278 217;HUM, HWE 100, 237; ITA, JOU, JPN, LIT, MAN 226, MAR 216; MAT (120 or above), MUS, NRE, PED (2 credits maximum), PER, PHI, PHY, POS, PSY, RUS, SOC, SPA, THE. *Some courses may be considered/career/technical by senior institutions and may not transfer. Check with your academic advisor and the institution to which you plan to transfer.	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	
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.)				

ASSOCIATE OF SCIENCE
Recommended Plan of Study
MARINE SCIENCE & OCEANOGRAPHY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

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>
	<u>COMMUNICATIONS – 9 credits</u>				
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	COM 115	_____	_____	_____
	<u>MATHEMATICS</u>				
3	College Algebra	MAT 121	_____	_____	_____
	<u>PHYSICAL AND LIFE SCIENCES – 10 credits</u>				
5	General College Biology I with Lab	BIO 111	_____	_____	_____
5	General College Biology II with Lab	BIO 112	_____	_____	_____
	<u>HUMANITIES – 9 credits</u>				
3	Ethics (PHI 112) or Environmental Ethics (PHI 218)	PHI _____	_____	_____	_____
6	Choose 6 credits from: 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;	_____	_____	_____	_____
	<u>SOCIAL/BEHAVIORAL SCIENCES – 9 credits (3 must be HIS)</u>				
3	HIS 101, 102, 111, 112, 201, 202, 247	HIS _____	_____	_____	_____
6	Recommended: GEO 105, ECO 201, and/or ANT 101	_____	_____	_____	_____
	<u>SPECIALIZED COURSE ELECTIVES – 16 credits</u>				
4	General College Ecology	BIO 222	_____	_____	_____
5	General College Chemistry	CHE 111	_____	_____	_____
4	General Oceanography	NRE 251	_____	_____	_____
3	Introduction to Statistics	MAT 135	_____	_____	_____
	<u>ELECTIVE COURSES – Select 4 Courses</u>				
4	Physical Geology	GEY 111	_____	_____	_____
5	General College Chemistry II	CHE 112	_____	_____	_____
4	Environmental Science	ENV 101	_____	_____	_____
3	Principles of Microeconomics	ECO 202	_____	_____	_____
1	Scuba Diving	PED 129	_____	_____	_____
1	Open-Water Diver Certification	PED 215	_____	_____	_____

60 TOTAL REQUIRED HOURS FOR ASSOCIATE OF SCIENCE DEGREE

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

PROFESSIONAL/TECHNICAL AND INDIVIDUALIZED DEGREE PROGRAMS

These Programs have been updated or added for the 2010-2011 Academic Year.

Associate Degree in General Studies14

Suggested Programs of Study

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Criminal Justice16

Fire Science-Wildland.....17

Geographic Information Systems18

Human Services19

Marine Science and Oceanography20

Natural Resource Management.....21

ASSOCIATE OF GENERAL STUDIES

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	<u>GENERAL EDUCATION REQUIREMENTS – 15 credits</u>	Course Number	Transfer Credits	Credit Hours Completed	Grade
3	<u>COMMUNICATIONS</u> English Composition I	ENG 121	_____	_____	_____
3	<u>SOCIAL/BEHAVIORAL SCIENCE</u> Requirement satisfied by one of the following: ANT 101, 107, 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, 217, 226, 227, 235, 238, 249; SOC 101, 102, 215, 216, 231	_____	_____	_____	_____
3	<u>SCIENCE</u> Requirement satisfied by one of the following: 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	_____	_____	_____	_____
3	<u>MATH</u> Requirement satisfied by one of the following: MAT 120, 121, 122, 123, 125, 135, 155, 156, 166, 201, 202, 203, 204, 215, 261, 265	MAT _____	_____	_____	_____
3	<u>LITERATURE/HUMANITIES</u> Requirement satisfied by one of the following: ART 110, 111, 112, 207; LIT 115, 201, 202, 205, 211, 212, 221, 222, 225; MUS 120, 121, 122; PHI 111, 112, 113, 114, 214; THE 105, 211, 212; FRE/GER/ITA/JPN/RUS/SPA 211, 212	_____	_____	_____	_____
<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 elective 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.

**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	COM 115	_____	_____	_____
3	Principles of Macroeconomics OR Principles of Microeconomics	ECO _____	_____	_____	_____
4	College Algebra	MAT 121	_____	_____	_____
	<u>HUMANITIES</u>				
	Select from:				
6	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 Pilot Flight I	AVT 202	_____	_____	_____
4	Commercial Pilot 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.)				

**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 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	COM 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 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	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.)				

(Online coursework required to complete this degree)

ASSOCIATE DEGREE IN GENERAL STUDIES

FIRE SCIENCE - WILDLAND

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

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>
	<u>COMMUNICATIONS</u>				
9	English Composition I	ENG 121	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
	Public Speaking	COM 115	_____	_____	_____
4	<u>MATHEMATICS</u>	MAT _____	_____	_____	_____
	MAT 121, 201				
10	<u>PHYSICAL AND LIFE SCIENCE</u>	_____	_____	_____	_____
	BIO 111, 112; CHE 111, 112;	_____	_____	_____	_____
9	<u>HUMANITIES</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;	_____	_____	_____	_____
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, 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				
	<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.)

ASSOCIATE DEGREE IN GENERAL STUDIES
GEOGRAPHIC INFORMATION SYSTEMS
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION REQUIREMENTS – 41 credits</u>				
	<u>COMMUNICATIONS</u>				
9	English Composition I	ENG 121	_____	_____	_____
	English Composition II	ENG 122	_____	_____	_____
	Public Speaking	COM 115	_____	_____	_____
4	<u>MATHEMATICS</u>	MAT _____	_____	_____	_____
	MAT 121, 201				
10	<u>PHYSICAL AND LIFE SCIENCE</u>	_____	_____	_____	_____
	BIO 111, 112; CHE 111, 112;	_____	_____	_____	_____
9	<u>HUMANITIES</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;	_____	_____	_____	_____
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, 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				
	<u>SPECIALIZED COURSE REQUIREMENTS – 19 credits</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.)				

Updated 06/23/2010

Program currently under revision – not accepting new students at this time

**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>				
	<u>COMMUNICATIONS</u>				
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II OR Technical Writing	ENG _____	_____	_____	_____
3	Public Speaking	COM 115	_____	_____	_____
3	<u>MATHEMATICS</u> College Algebra OR Introduction to Statistics	MAT _____	_____	_____	_____
3	<u>SCIENCE</u> BIO 105, 111, 112, 116, 201, 202, 222, ENV 101	_____	_____	_____	_____
3	Introduction to Sociology	SOC 101	_____	_____	_____
3	<u>HUMANITIES</u> 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 credits</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 credits</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	Victims of Crime and Trauma	CRJ 150	_____	_____	_____
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.)				

(Online coursework required to complete this degree)

**ASSOCIATE DEGREE IN GENERAL STUDIES
MARINE SCIENCE & OCEANOGRAPHY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 29 credits</u>					
<u>COMMUNICATIONS</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	Public Speaking	COM 115	_____	_____	_____
<u>MATHEMATICS</u>					
4	College Algebra	MAT 121	_____	_____	_____
3	Introduction to Statistics	MAT 135	_____	_____	_____
<u>PHYSICAL AND LIFE SCIENCES</u>					
5	General College Biology I	BIO 111	_____	_____	_____
5	General College Biology II	BIO 112	_____	_____	_____
3	<u>HUMANITIES (Select 1 course)</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; WAYS OF THINKING: PHI 111, 112, 113, 114, 217; FOREIGN LANGUAGES FRE/GER/ITA/JPN/RUS/SPA 211, 212	_____	_____	_____	_____
3	<u>SOCIAL/BEHAVIORAL SCIENCES (Select 1 course)</u> GEO 105; ECO 201, 202; ANT 101; PSY 101	_____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 31 credits</u>					
4	General Oceanography	NRE 251	_____	_____	_____
4	Environmental Science	ENV 101	_____	_____	_____
5	General College Chemistry I	CHE 111	_____	_____	_____
5	General College Chemistry II	CHE 112	_____	_____	_____
4	General College Ecology	BIO 222	_____	_____	_____
4	Physical Geology	GEY 111	_____	_____	_____
1	Scuba Diving	PED 129	_____	_____	_____
1	Open-Water Diver Certification	PED 215	_____	_____	_____
3	Introduction to GIS	GIS 101	_____	_____	_____

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.)

ASSOCIATE DEGREE IN GENERAL STUDIES
NATURAL RESOURCE MANAGEMENT
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits	GENERAL EDUCATION REQUIREMENTS – 41 credits	Course Number	Transfer Credits	Credit Hours Completed	Grade
9	<u>COMMUNICATIONS</u> English Composition I English Composition II Public Speaking	ENG 121 ENG 122 COM 115	_____ _____ _____	_____ _____ _____	_____ _____ _____
4	<u>MATHEMATICS</u> MAT 121, 201	MAT _____	_____	_____	_____
10	<u>PHYSICAL AND LIFE SCIENCES</u> BIO 111, 112; CHE 111, 112;	_____ _____	_____ _____	_____ _____	_____ _____
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 _____ _____	_____ _____ _____	_____ _____ _____	_____ _____ _____
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, 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	_____	_____	_____
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.)

OCCUPATIONAL PROGRAMS

These Programs have been updated or added for the 2010-2011 Academic Year.

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Occupational Certificates

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Seasonal Park Ranger Academy and	
Skills	45
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**ASSOCIATE OF APPLIED SCIENCE
ACCOUNTING**
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
	<u>GENERAL EDUCATION REQUIREMENTS – 15 credits</u>				
	<u>COMMUNICATIONS</u>				
3	English Composition I	ENG 121	_____	_____	_____
3	<u>MATHEMATICS</u> MAT 121 or above	MAT _____	_____	_____	_____
3	<u>Arts and Humanities</u> Satisfied by one from Social/Behavioral Science; Humanities; Language; or Natural/Physical/Biological Science	_____	_____	_____	_____
	<u>SOCIAL AND BEHAVIORAL SCIENCES</u>				
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	_____	_____	_____
12	<u>ELECTIVES – Choose 12 credits</u>				
	ACC 115, ACC 125, ACC 212, ACC 216, ACC 227, BUS 226, CIS 118, MAN 226, 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.)				

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

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

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.)

**ASSOCIATE OF APPLIED SCIENCE
AVIATION TECHNOLOGY (AIRPLANE)
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 ____	_____	_____	_____
	or				
	Technical Writing				
3	Public Speaking	COM 115	_____	_____	_____
6	SOCIAL AND BEHAVIORAL SCIENCES (satisfied by two)	_____	_____	_____	_____
	ECO 201, 202; PSY 101, 102, 106; 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 Pilot Flight I	AVT 202	_____	_____	_____
4	Commercial Pilot Flight II	AVT 203	_____	_____	_____
1	Crew Resource Management	AVT 206	_____	_____	_____
1	Multi Engine Ground School	AVT 207	_____	_____	_____
2	Fundamentals of Instruction	AVT 211	_____	_____	_____
2	Flight Instructor Ground School	AVT 212	_____	_____	_____
2	Instrument Instructor Ground School	AVT 221	_____	_____	_____
1	Flight Instructor Flight or	AVT 213	_____	_____	_____
	Mountain Flying Ground School or	AVT 205	_____	_____	_____
	Simulator Lab I or	AVT 145	_____	_____	_____
	Simulator Lab II	AVT 146	_____	_____	_____
1	Multi Engine Flight	AVT 208	_____	_____	_____
3	Aircraft Systems for Pilots – Airframe	AVT 140	_____	_____	_____
3	Aircraft Systems for Pilots - Powerplant	AVT 141	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS – 3 credits</u>					
3	Select from MAN 200, 226, 227; BUS 115, 217; AVT 240	_____	_____	_____	_____
<u>ELECTIVES – 2 credits</u>					
2	Select from AVT 208, 312, 222, 223, 236, 237, 224	_____	_____	_____	_____

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.)

**ASSOCIATE OF APPLIED SCIENCE
AVIATION TECHNOLOGY (HELICOPTER)
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 _____	_____	_____	_____
	or				
	Technical Writing				
3	Public Speaking	COM 115	_____	_____	_____
6	SOCIAL AND BEHAVIORAL SCIENCES (satisfied by two)	_____	_____	_____	_____
	ECO 201, 202; PSY 101, 102, 106; SOC 101, 102	_____	_____	_____	_____
3	Math Elective (MAT 100 or above)	MAT _____	_____	_____	_____
<u>SPECIALIZED REQUIRED COURSES – 44 credits</u>					
4	Private Pilot Ground School	AVT 101	_____	_____	_____
4	Private Pilot Flight - Helicopter	AVT 104	_____	_____	_____
4	Aviation Meteorology	AVT 105	_____	_____	_____
4	Instrument Pilot Ground School	AVT 111	_____	_____	_____
4	Instrument Pilot Flight – Helicopter	AVT 114	_____	_____	_____
2	Commercial Pilot Ground School	AVT 201	_____	_____	_____
3	Commercial Pilot Flight I - Helicopter	AVT 204	_____	_____	_____
4	Commercial Pilot Flight II - Helicopter	AVT 214	_____	_____	_____
1	Crew Resource Management	AVT 206	_____	_____	_____
2	Fundamentals of Instruction	AVT 211	_____	_____	_____
2	Flight Instructor Ground School	AVT 212	_____	_____	_____
2	Instrument Instructor Ground School	AVT 221	_____	_____	_____
1	Flight Instructor Flight - Helicopter or	AVT 215	_____	_____	_____
	Mountain Flying Ground School or	AVT 205	_____	_____	_____
	Simulator Lab I or	AVT 145	_____	_____	_____
	Simulator Lab II	AVT 146	_____	_____	_____
1	CFI Instrument - Helicopter	AVT 224	_____	_____	_____
3	Aircraft Systems for Pilots – Airframe	AVT 140	_____	_____	_____
3	Aircraft Systems for Pilots - Powerplant	AVT 141	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS – 3 credits</u>					
3	Select from MAN 200, 226, 227; BUS 115, 217; AVT 240	_____	_____	_____	_____
<u>ELECTIVES – 2 credits</u>					
2	Select from AVT 208, 312, 222, 223, 236, 237, 224	_____	_____	_____	_____

67 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.)

ASSOCIATE OF APPLIED SCIENCE
BANKING AND FINANCIAL SERVICES
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>GENERAL EDUCATION REQUIREMENTS – 18 credits</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
	COMMUNICATIONS				
3	English Composition I	ENG 121	_____	_____	_____
3	Public Speaking 115 or COM 125 (*This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.)	COM _____	_____	_____	_____
3	ARTS AND HUMANITIES (Select 1 course) 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	____	_____	_____	_____
3	MATHEMATICS MAT 120 or higher	MAT _____	_____	_____	_____
6	SOCIAL AND BEHAVIORAL SCIENCES Principles of Macroeconomics Principles of Microeconomics	ECO 201 ECO 202	_____	_____	_____
	<u>SPECIALIZED COURSE REQUIREMENTS – 45 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	_____	_____	_____
3	Introduction to PC Application	CIS 118	_____	_____	_____
3	Introduction to Finance	FIN 101	_____	_____	_____
3	Principles of Banking	FIN 105	_____	_____	_____
3	Money and Banking	FIN 226	_____	_____	_____
2	Law and Banking Applications	FIN 245	_____	_____	_____
3	Internship	FIN 285	_____	_____	_____
1	Business Ethics and Values	MAN 102	_____	_____	_____
1	Time Management	MAN 117	_____	_____	_____
3	Negotiations and Conflict Resolution	MAN 212	_____	_____	_____
3	Principles of Marketing	MAR 216	_____	_____	_____
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.)				

**ASSOCIATE OF APPLIED SCIENCE
CIVIL ENGINEERING TECHNOLOGY
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 19 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	College Trigonometry	MAT 122	_____	_____	_____
4	Survey of Calculus	MAT 125	_____	_____	_____
4	Conceptual Physics	PHY 105	_____	_____	_____
5	General College Chemistry	CHE 111	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 50 credits</u>					
5	Civil Construction Materials	AEC 141	_____	_____	_____
3	Civil Construction Systems	AEC 223	_____	_____	_____
3	Civil Water/Environmental Systems	AEC 224	_____	_____	_____
6	Basic CAD	CAD 110	_____	_____	_____
3	Civil 3D CAD	CAD 233	_____	_____	_____
3	Engineering Graphics I	EGG 101	_____	_____	_____
5	Engineering Surveying I	EGG 260	_____	_____	_____
5	Engineering Surveying II	EGG 261	_____	_____	_____
2	Construction Planning & Estimating	ENT 135	_____	_____	_____
2	Soil Mechanics	ENT 210	_____	_____	_____
3	Concrete & Asphalt Tech	ENT 245	_____	_____	_____
3	Strength of Materials	ENT 247	_____	_____	_____
3	Global Positioning Systems for GIS	GIS 131	_____	_____	_____
4	Engineering Statics	TEC 235	_____	_____	_____

69 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.)

Program currently under review – not accepting new students

Approved 7/31/2007
Updated 06/23/2010

**ASSOCIATE OF APPLIED SCIENCE
COSMETOLOGY OCCUPATIONS**
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>GENERAL EDUCATION REQUIREMENTS – 16 credits</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</u>
3	Communications: choose one course from ENG 121, 122; COM 115; SPE 125	_____	_____	_____	_____
3	Mathematics: MAT 107 or higher	_____	_____	_____	_____
3	Social/Behavioral Sciences: choose one course from ANT 101; GEO 105; ECO 201, 202; PSY 101, 102, 235; SOC 101, 102	_____	_____	_____	_____
3	Applied Studies Elective: choose one course from BUS 115; MAN 226; SPA 101, 111	_____	_____	_____	_____
4	Science: choose one course from AST 101; BIO 105, 111, 201; CHE 101, 111; GEY 111	_____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 60 credits</u>					
1	Shampoos, Rinses, Conditioners I	COS 103	_____	_____	_____
2	Introduction to Hair Coloring	COS 110	_____	_____	_____
2	Introduction to Hair Cutting	COS 120	_____	_____	_____
2	Introduction to Hair Styling	COS 130	_____	_____	_____
1	Introduction to Chemical Texture	COS 140	_____	_____	_____
2	Introduction to Disinfection, Sanitation, and Safety	COS 160	_____	_____	_____
3	Introduction to Facials and Skin Care	EST 110	_____	_____	_____
2	Intermediate Facials and Skin Care	EST 111	_____	_____	_____
3	Introduction to Manicures and Pedicures	NAT 110	_____	_____	_____
2	Intermediate Manicures and Pedicures	NAT 111	_____	_____	_____
2	Intermediate I: Hair Coloring	COS 111	_____	_____	_____
2	Intermediate I: Hair Cutting	COS 121	_____	_____	_____
1	Intermediate I: Chemical Texture	COS 141	_____	_____	_____
1	Laws, Rules, and Regulations	COS 150	_____	_____	_____
1	Intermediate I: Disinfection, Sanitation, and Safety	COS 161	_____	_____	_____
2	Advanced Manicures and Pedicures	NAT 210	_____	_____	_____
5	Application of Artificial Nails	NAT 211	_____	_____	_____
2	Advanced Massage and Skin Care	EST 210	_____	_____	_____
1	Facial Makeup	EST 211	_____	_____	_____
3	Hair Removal	EST 212	_____	_____	_____
2	Intermediate I: Hair Styling	COS 131	_____	_____	_____
1	Shampoos, Rinses, Conditioners II	COS 203	_____	_____	_____
2	Intermediate II: Hair Coloring	COS 210	_____	_____	_____
2	Advanced Hair Coloring	COS 211	_____	_____	_____
2	Intermediate II: Hair Cutting	COS 220	_____	_____	_____
2	Advanced Hair Cutting	COS 221	_____	_____	_____
2	Intermediate II: Hair Styling	COS 230	_____	_____	_____
1	Advanced Hair Styling	COS 231	_____	_____	_____
1	Intermediate II: Chemical Texture	COS 240	_____	_____	_____
1	Advanced Chemical Texture	COS 241	_____	_____	_____
1	Management, Ethics, Interpersonal Skills, and Sales	COS 250	_____	_____	_____
2	Intermediate II: Disinfection, Sanitation and Safety	COS 260	_____	_____	_____
1	Advanced Disinfection, Sanitation, and Safety	COS 261	_____	_____	_____
76	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.)				

ASSOCIATE OF APPLIED SCIENCE
DENTAL HYGIENE
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

PREREQUISITES:

BIO 201 Human Anatomy and Physiology I (4)	CHE 102 Introduction to Chemistry II (5)	ENG 121 English Composition I (3)
BIO 202 Human Anatomy and Physiology II (4)	*CHE 109 General, Organic, & Biochemistry (4)	
BIO 204 Microbiology (4)	*CHE 111 General Chemistry I (5)	

*CHE 102 Introduction to Chemistry II is preferred but CHE 109, General Organic, & Biochemistry or CHE 111, General Chemistry I will be accepted in lieu of CHE 102

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 16 credits</u>					
1	Introduction to Computer Applications in DH	CIS 175	_____	_____	_____
1	Advanced Computer Applications in DH	CIS 175	_____	_____	_____
1	Current Issues and Ethics in DH	PHI 121	_____	_____	_____
0.5	CPR for Health Professionals	HPR 102	_____	_____	_____
0.5	CPR for Health Professionals	HPR 102	_____	_____	_____
3	Public Speaking	COM 115	_____	_____	_____
3	General Psychology I	PSY 101	_____	_____	_____
3	Introduction to Sociology I	SOC 101	_____	_____	_____
3	Human Nutrition	HWE 100	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 66 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	_____	_____	_____
2	Preventive Dentistry & Special Needs Patients	DEH 116	_____	_____	_____
3	Periodontics I/Immunology Aspects of Perio Disease	DEH 122/175	_____	_____	_____
1	Head & Neck Anatomy	DEH 123	_____	_____	_____
3	Clinical Practice of Dental Hygiene I	DEH 170	_____	_____	_____
3	Clinical Practice of Dental Hygiene I-A	DEH 171	_____	_____	_____
3	Dental Materials	DEH 126	_____	_____	_____
2	Applied Pharmacology	DEH 132	_____	_____	_____
2	Local Anesthesia	DEH 133	_____	_____	_____
1	Nitrous Oxide/Oxygen Sedation	DEH 138	_____	_____	_____
2	Clinic II Lecture (Clinic I-A Lecture)	DEH 201	_____	_____	_____
2	Community Dental Health I	DEH 204	_____	_____	_____
3	General & Oral Pathology	DEH 213	_____	_____	_____
2	Ethics & Practice Management	DEH 221	_____	_____	_____
1	Community Dental Health: Field Experience	DEH 225	_____	_____	_____
2	Periodontics II	DEH 242	_____	_____	_____
7	Clinical Practice of Dental Hygiene II	DEH 270	_____	_____	_____
2	Clinical Theory of Dental Hygiene Practice II	DEH 268	_____	_____	_____
7	Clinical Practice of Dental Hygiene III	DEH 271	_____	_____	_____
2	Clinical Theory of Dental Hygiene III	DEH 285	_____	_____	_____
<u>SUGGESTED OPTIONAL COURSES</u>					
1	Introduction to Dental Hygiene	HPR 175	_____	_____	_____
Variable	Pre-Dental Hygiene Internship	HPR 180	_____	_____	_____
1	National Boards Preparation	HPR 175	_____	_____	_____
1-6	Special Topics	DEH 275	_____	_____	_____

82 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.)

**ASSOCIATE OF APPLIED SCIENCE
 EARLY CHILDHOOD PROFESSIONS**
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 – 15 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	MAT 107, 120, or 121	MAT	_____	_____	_____
3	Public Speaking	COM 115	_____	_____	_____
3	General Psychology I	PSY 101	_____	_____	_____
3	Introduction to Sociology I	SOC 101	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 37 credits</u>					
3	Introduction to Early Childhood Education	ECE 101	_____	_____	_____
3	Introduction to Early Childhood Lab Techniques	ECE 102	_____	_____	_____
3	Guidance Strategies for Children	ECE 103	_____	_____	_____
3	Infant 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	_____	_____	_____
1	Early Childhood Education Practicum	ECE 188	_____	_____	_____
3	Early Childhood Education Practicum	ECE 288	_____	_____	_____
<u>ELECTIVES – 9 credits</u>					
<i>(Select courses from the following:)</i>					
	ACC 121, BUS 217, CIS 118, ECE 100, ECE 126	_____	_____	_____	_____
	ECE 127, ECE 175, ECE 225, ECE 226, SOC 205,	_____	_____	_____	_____
	PHI 112, MUS 120, COM 125, ART 110, SPA 101,	_____	_____	_____	_____
	HWE 100	_____	_____	_____	_____
		_____	_____	_____	_____

61 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.)

ASSOCIATE OF APPLIED SCIENCE EMERGENCY MEDICAL SERVICES 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 _____	_____	_____	_____
	or				
	Technical Writing (ENG 131)				
3	Public Speaking	COM 115	_____	_____	_____
3	General Psychology I (PSY 101 or higher)	PSY _____	_____	_____	_____
3	Introduction to Sociology I (SOC 101 or higher)	SOC _____	_____	_____	_____
3	Math Elective (MAT 107 or above)	MAT _____	_____	_____	_____
<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 – 11 credits</u>					
<i>Select courses from:</i>					
11	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 personalized career path if so desires; Management, Education, Public Safety (Fire, Law Enforcement) or preparation for EMT Paramedic.

**ASSOCIATE OF APPLIED SCIENCE
HORSEMANSHIP AND HORSE MANAGEMENT
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 15 credits</u>					
3	English Requirement (ENG 115 or above)	ENG ____	_____	_____	_____
3	PC Applications	CIS 118	_____	_____	_____
3	Mathematics Requirement (MAT 107 or above)	MAT ____	_____	_____	_____
6	General Education Electives (Choose 2 courses from the list of approved electives)	____ ____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 40 credits</u>					
2	Ranch Horsemanship Skills I	AGP 160	_____	_____	_____
4	Introduction to Equine Science	ASC 102	_____	_____	_____
1	Stable Operations I	EQM 101	_____	_____	_____
1	Stable Operations II	EQM 102	_____	_____	_____
4	Horse Production	EQM 151	_____	_____	_____
3	Equine Evaluation	EQM 153	_____	_____	_____
2	Equine Reproduction	EQM 158	_____	_____	_____
3	Equine Management	EQM 251	_____	_____	_____
3	Fundamentals of Riding Instruction	EQT 200	_____	_____	_____
7	Basic Horsemanship & Equitation Skills	HTM 150	_____	_____	_____
7	Basic Care and Training	HTM 152	_____	_____	_____
1	Foal Training	HTM 155	_____	_____	_____
2	Internship	HTM 280	_____	_____	_____
<u>SPECIALIZED COURSE ELECTIVES – 7 credits</u>					
5	Outfitting & General Guiding	ADG 150	_____	_____	_____
2	Intermediate Western Equitation	ASC 243	_____	_____	_____

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.)

**ASSOCIATE OF APPLIED SCIENCE
INDUSTRIAL ELECTRICIAN
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 16 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
4	College Algebra	MAT 121	_____	_____	_____
3	Human Resources	PSY 106	_____	_____	_____
6	General Education Electives: Choose two classes from State Guaranteed Transfer courses in two disciplines in Science, Humanities, or SPE 115	____	_____	_____	_____
		____	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 50 credits</u>					
4	Electrical Construction and Planning	EIC 100	_____	_____	_____
4	Basics of AC & DC Electricity	EIC 105	_____	_____	_____
4	Electrical Installations I	EIC 110	_____	_____	_____
1.5	National Electric Code 2008	EIC 133	_____	_____	_____
1.5	Grounding and Bonding	EIC 144	_____	_____	_____
4	DC Circuit Fundamentals	EIC 150	_____	_____	_____
4	AC Circuit Fundamentals	EIC 155	_____	_____	_____
4	Electrical Instruments and Measurements	EIC 160	_____	_____	_____
4	Solid State Devices and Circuits	EIC 165	_____	_____	_____
4	Electrical Maintenance	EIC 167	_____	_____	_____
4	Electrical Code Calculations	EIC 169	_____	_____	_____
4	Industrial Electrical Controls I	EIC 220	_____	_____	_____
1.5	Understanding PLC's	EIC 224	_____	_____	_____
4	Programmable Controllers	EIC 225	_____	_____	_____
1.5	Mechanical Drives	EIC 227	_____	_____	_____

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.)

Program currently under review – not currently accepting new students

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.**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 18 credits</u>					
<u>(Prerequisites)</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>SPECIALIZED COURSE REQUIREMENTS – 62 credits</u>					
8	Fundamentals of Nursing	NUR 109	_____	_____	_____
2	Basic Concepts of Pharmacology	NUR 112	_____	_____	_____
1	Dietary Nutrition	HPR 108	_____	_____	_____
3	Math for Clinical Calculations	MAT 103	_____	_____	_____
9	Medical and Surgical Nursing Concepts	NUR 106	_____	_____	_____
7	Obstetric and Pediatric Nursing	NUR 150	_____	_____	_____
4	Pathophysiology	BIO 216	_____	_____	_____
8	Advanced Concepts of Medical-Surgical Nursing I	NUR 206	_____	_____	_____
4	Nursing Care of Psychiatric Clients	NUR 211	_____	_____	_____
2	Pharmacology II	NUR 212	_____	_____	_____
6	Advanced Concepts of Medical-Surgical Nursing II	NUR 216	_____	_____	_____
5	Leadership, Management, and Trends	NUR 230	_____	_____	_____
3	Arts/Humanities or Social/Behavioral Sciences 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.)

<u>REQUIRED FOR LPN TRANSITIONING TO ADN</u>					
4	Transition from LPN to ADN (for LPN's only)	NUR 199	_____	_____	_____
<u>OPTIONAL COURSE TO RECEIVE CERTIFICATE OF PRACTICAL NURSING (Between First and Second Years):</u>					
5	Transition into Practical Nursing	NUR 169	_____	_____	_____

ASSOCIATE OF APPLIED SCIENCE
OFFICE ADMINISTRATIVE ASSISTANT/BUSINESS COMPUTERS
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 15 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	English Composition II	ENG 122	_____	_____	_____
3	Public Speaking	COM 115	_____	_____	_____
3	Math Elective (MAT 107 or above)	MAT _____	_____	_____	_____
3	SOCIAL/BEHAVIORAL SCIENCES (Satisfied by one) ECO 201, 202; POS 111; PSY 101, 106; SOC 101	___ ___	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 37 credits</u>					
4	Accounting Principles I	ACC 121	_____	_____	_____
3	Introduction to Business	BUS 115	_____	_____	_____
3	Business Communications & Report Writing	BUS 217	_____	_____	_____
3	Principles of Management	MAN 226	_____	_____	_____
3	Introduction to PC applications	CIS 118	_____	_____	_____
3	Word Processing I	CIS 131	_____	_____	_____
3	Word Processing II	CIS 132	_____	_____	_____
3	Complete PC Database	CIS 145	_____	_____	_____
3	PC Spreadsheet Concepts	CIS 155	_____	_____	_____
6	Cooperative Education/Internship	BUS 187	_____	_____	_____
3	Ethics	PHI 112	_____	_____	_____
<u>SPECIALIZED COURSE ELECTIVES (Select 4 courses)</u>					
3	Small Business Management	MAN 216	_____	_____	_____
3	Principles of Marketing	MAR 216	_____	_____	_____
3	Complete Presentation Graphics	CIS 165	_____	_____	_____
3	Desktop Publishing	CIS 167	_____	_____	_____
4	Computer Science I	CSC 160	_____	_____	_____
3	Mastering the Web	CWB 106	_____	_____	_____
3	Technical Writing	ENG 131	_____	_____	_____
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.)				

Pending Approval

**ASSOCIATE OF APPLIED SCIENCE
OUTDOOR LEADERSHIP
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 17 credits</u>					
3	ENG 115 or higher	ENG _____	_____	_____	_____
3	Public Speaking	COM 115	_____	_____	_____
MATHEMATICS					
3	MAT 120 or higher	MAT _____	_____	_____	_____
PHYSICAL AND LIFE SCIENCES					
4	Environmental Science	ENV 101	_____	_____	_____
4	General College Ecology	BIO 222	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 42 credits</u>					
3	Introduction to Natural Resource Management	NRE 102	_____	_____	_____
3	Natural Resource Interpretation	COM 214	_____	_____	_____
4	Physical Geology	GEY 111	_____	_____	_____
2	Natural Resource Internship	NRE 280	_____	_____	_____
3	Environmental Issues and Ethics	PHI 218	_____	_____	_____
3	Principles of Outdoor Recreation	PER 252	_____	_____	_____
2	Outdoor Leadership	PER 253	_____	_____	_____
3	Outdoor Recreation Programming	PER 200	_____	_____	_____
4	Wilderness First Responder	HWE 129	_____	_____	_____
1	Risk Management for Outdoor Education	ADG 225	_____	_____	_____
3	Wildland Firefighting	FST 152	_____	_____	_____
3	Outdoor Expedition	PED 155	_____	_____	_____
2	Challenge Course Facilitation	OUT 216	_____	_____	_____
3	Wilderness Survival Skills	PED 165	_____	_____	_____
3	Choose 3 from PED or PER Outdoor Skills classes	PED _____	_____	_____	_____
		PED _____	_____	_____	_____
		PED _____	_____	_____	_____
6	<u>ELECTIVES – 6 credits</u> AGY, ADG, ANT, AST, BIO, CHE, CIS, ECO, ENG, EQM, EQT, GEO, GEY, GIS, HIS, HTM, MAT, NRE, OUT, PER, PED (no more than 3 credits), PRA 180, POS 111	____	_____	_____	_____
		____	_____	_____	_____
		____	_____	_____	_____

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.)

**ASSOCIATE OF APPLIED SCIENCE
PARK RANGER
PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS**

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 17 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
3	Public Speaking	COM 115	_____	_____	_____
3	MATHEMATICS				
3	MAT 120 or higher	MAT _____	_____	_____	_____
PHYSICAL AND LIFE SCIENCES					
4	Environmental Science	ENV 101	_____	_____	_____
4	General College Biology	BIO 222	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 14 credits</u>					
3	Introduction to Natural Resource Management	NRE 102	_____	_____	_____
3	Natural Resource Interpretation	COM 214	_____	_____	_____
3	Principles of Outdoor Recreation	PER 152	_____	_____	_____
2	Outdoor Leadership	PER 253	_____	_____	_____
3	Outdoor Recreation Programming	PER 200	_____	_____	_____
<u>RELATED COURSE REQUIREMENTS – 20 credits</u>					
6	Seasonal Park Ranger Academy I	PRA 100	_____	_____	_____
6	Seasonal Park Ranger Academy II	PRA 101	_____	_____	_____
3	Arrest Control Techniques	LEA 106	_____	_____	_____
1	Ranger Driving Tactics	PRA 107	_____	_____	_____
3	Firearms	LEA 108	_____	_____	_____
1	Physical Conditioning	PED 112	_____	_____	_____
<u>ELECTIVES – 9 credits</u>					
Recommended – Choose 6 credits:					
3	Wildland Firefighting	FST 152	_____	_____	_____
4	Wilderness First Responder	HWE 129	_____	_____	_____
	Wilderness Survival Skills (LNT)	PED 165	_____	_____	_____
	Orienteering	OUT 120	_____	_____	_____
Or choose from the following:					
	AGY, ADG, ANT, AST, BIO, CHE, CIS, ECO,	_____	_____	_____	_____
	ENG, EQM, EQT, GEO, GEY, GIS, HIS, HTM,	_____	_____	_____	_____
	MAT, NRE, OUT, PER, PED (no more than 3 credits),	_____	_____	_____	_____
	PRA 180, POS 111				

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.)

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

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 16 credits</u>					
3	English Composition I (ENG 121) or Technical Writing (ENG 131)	ENG ____	_____	_____	_____
3	Human Relations	PSY 106	_____	_____	_____
3	Career Math or equivalent	MAT 107	_____	_____	_____
4	Conceptual Physics	PHY 105	_____	_____	_____
3	Intro to PC Applications	CIS 118	_____	_____	_____
<u>SPECIALIZED COURSE REQUIREMENTS – 49 credits</u>					
6	Power Generation Applications	PPT 150	_____	_____	_____
3	Safety, Health, and Environment	PRO 110	_____	_____	_____
4	Coal and Ash Handling	PPT 113	_____	_____	_____
3	Print Reading for Manufacturing	ENT 106	_____	_____	_____
2	Water and Wastewater Treatment	ENT 250	_____	_____	_____
2	Basic Electricity	PPT 100	_____	_____	_____
2	Basic Plant Operations	PPT 105	_____	_____	_____
2	Plant Systems	PPT 110	_____	_____	_____
3	Plant Auxiliaries	PPT 112	_____	_____	_____
2	Environmental Protection	PPT 220	_____	_____	_____
3	Instrumentation and Control	PPT 116	_____	_____	_____
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	_____	_____	_____

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.)

Program currently under review – not current accepting new students

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

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<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 HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

Program currently under review – not currently accepting new students

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

Required Credits		Course Number	Transfer Credits	Credit Hours Completed	Grade
<u>GENERAL EDUCATION REQUIREMENTS – 19 credits</u>					
3	English Composition I	ENG 121	_____	_____	_____
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 CHE101 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 HOURS FOR ASSOCIATE OF APPLIED SCIENCE
(State-approved core courses are indicated by **bold print**. State-approved elective courses are in plain lettering.)

Program currently under review – not currently accepting new students

OCCUPATIONAL CERTIFICATES

OCCUPATIONAL CERTIFICATE ACCOUNTING

PROGRAM WORKSHEET AND GRADUATION REQUIREMENTS

<u>Required Credits</u>	<u>GENERAL EDUCATION REQUIREMENTS – 14 credits</u>	<u>Course Number</u>	<u>Transfer Credits</u>	<u>Credit Hours Completed</u>	<u>Grade</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 credits</u>					
3	Introduction to PC Applications	CIS 118	_____	_____	_____
3	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.)

Updated 2/18/2010

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 Aid Health Care Skills* *Prerequisite: HPR 102 – CPR for Professionals (0.5 Credits)	NUA 101	_____	_____	_____
1	Nurse Assistant Clinical Experience	NUA 170	_____	_____	_____

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

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>Credit Hours Completed</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	Infant and Toddler Theory and Practice	ECE 111	_____	_____	_____
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	_____	_____	_____
1	Early Childhood Education Practicum	ECE 188	_____	_____	_____
3	Early Childhood Education Practicum	ECE 288	_____	_____	_____

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

Updated 6/8/2010

OCCUPATIONAL CERTIFICATE
EARLY CHILDHOOD PROFESSIONS – EARLY CHILDHOOD TEACHER
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>
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	_____	_____	_____
1	Early Childhood Education Practicum	ECE 188	_____	_____	_____

16 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE

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

Updated 6/8/2010

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>Credit Hours Completed</u>	<u>Grade</u>
3	Introduction to Early Childhood Education	ECE 101	_____	_____	_____
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	Child Development	PSY 238	_____	_____	_____
1	Early Childhood Education Practicum	ECE 188	_____	_____	_____

16 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE

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

Updated 6/8/2010

OCCUPATIONAL CERTIFICATE
EARLY CHILDHOOD PROFESSIONS – LEAD TEACHER
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>
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	Nutrition, Health, and Safety	ECE 205	_____	_____	_____
3	Curriculum Development: Methods and Techniques	ECE 220	_____	_____	_____
3	Exceptional Child	ECE 260	_____	_____	_____
3	Child Development	PSY 238	_____	_____	_____
1	Early Childhood Education Practicum	ECE 188	_____	_____	_____
3	Early Childhood Education Practicum	ECE 288	_____	_____	_____

28 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE

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

Updated 6/8/2010

OCCUPATIONAL CERTIFICATE
SEASONAL PARK RANGER ACADEMY AND SKILLS
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	Seasonal Park Ranger Academy I	PRA 100	_____	_____	_____
6	Seasonal Park Ranger Academy II	PRA 101	_____	_____	_____
3	Arrest Control Techniques	LEA 106	_____	_____	_____
1	Ranger Driving Tactics	PRA 107	_____	_____	_____
3	Firearms	LEA 108	_____	_____	_____
1	Physical Conditioning	PED 112	_____	_____	_____
3	Park Ranger Internship	PRA 180	_____	_____	_____

23 TOTAL REQUIRED HOURS FOR OCCUPATIONAL CERTIFICATE

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

Approved 6/30/2010

**OCCUPATIONAL CERTIFICATE
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 – 6 credits</u>				
3	Career Math or equivalent	MAT 107	_____	_____	_____
3	Introduction to PC Applications	CIS 118	_____	_____	_____
	<u>SPECIALIZED COURSE REQUIREMENTS – 25 credits</u>				
1	Workplace Communications	COM 100	_____	_____	_____
3	Safety, Health, and Environment	PRO 110	_____	_____	_____
4	Coal and Ash Handling	PPT 113	_____	_____	_____
3	Print Reading for Manufacturing	ENT 106	_____	_____	_____
2	Water and Wastewater Treatment	ENT 250	_____	_____	_____
2	Basic Electricity	PPT 100	_____	_____	_____
2	Basic Plant Operations	PPT 105	_____	_____	_____
2	Plant Systems	PPT 110	_____	_____	_____
3	Plant Auxiliaries	PPT 112	_____	_____	_____
3	Instrumentation and Control	PPT 116	_____	_____	_____

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

Updated 8/2010

Program currently under review – not currently accepting new students

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

Prerequisite: ACC 211

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

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

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

ACC 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.

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

Prerequisite: ASC 243 or Program Director approval

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

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

Introduces risk management in the outdoor environment. Students will gain a better

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

AGP 160 RANCH HORSEMANSHIP SKILLS/2(2-0-0)

Prerequisites: ASC 243 or Program Director Approval

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

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

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

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

Prerequisite: HTM 150

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

**COM 214 NATURAL RESOURCE
INTERPRETATION AND
COMMUNICATION/3 (3-0-0)**

Provides communication and interpretation training for those required to interpret natural resource data or present information about historical characters and times for the public. The course focuses on experiential skill development in the area of educational interpretation including, but not limited to, in-class and on-site interpretation of historical, geological, zoological, and other environmental topics and sites. It also stresses the preparation of educational presentations aimed at all levels of learner from pre-K through mature adulthood using various presentation techniques including, but not limited to, visual aids, props, dramatic performance, and puppetry.

ECE 175 SPECIAL TOPICS/0-3 (3-0-0)

Explores current topics, issues and activities related to one or more aspects of the early childhood profession.

**ECE 188 PRACTICUM: EARLY CHILDHOOD
EDUCATION/1 (0-0-3)**

Provides students with field experience in early childhood programs.

**ECE 288 PRACTICUM: EARLY CHILDHOOD
EDUCATION/3 (0-0-9)**

Provides students with advanced field experience opportunities in early childhood education programs.

EQM 102 STABLE OPERATIONS II/1(1-0-0)

Prerequisite: EQM 101

Builds on EQM 101 and continues focus on the routine daily care, grooming, feeding, stable

sanitation, daily health, and feed records of horses.

**ENG 115 TECHNICAL ENGLISH AND
COMMUNICATION/3 (3-0-0)**

Focuses on the written and oral communication needs of students in vocational and technical fields. Enables the student to practice written, oral, reading, reasoning, and interpersonal communication skills in order to become successful(or to remain successful) in the workplace.

**HWE 129 WILDERNESS FIRST
RESPONDER/4(4-0-0)**

Provides the student with those skills and emergency medical care techniques used by guides, trip leaders and others providing primary care in backcountry setting. The student will be able to respond correctly to those medical and trauma situations commonly encountered when entry into the EMS system is delayed or unlikely.

**LEA 106 ARREST CONTROL TECHNIQUES/
3(3-0-0)**

Covers the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Emphasizes the continuum of force and de-escalation of force.

LEA 108 FIREARMS/3 (3-0-0)

Discusses the skills, knowledge and abilities necessary to safely use police firearms. Students will demonstrate skills by firing weapons on a firing range. The student will demonstrate basic safety techniques and will explain the firearms role within the continuum of force.

NRE 127 FIELD MONITORING TECHNIQUES/2 (2-0-0)

Teaches the basic techniques utilized by land and water environmental technicians. Students will obtain training in the areas of field equipment use and calibration (inclusive of flow meters, water and soil quality instrumentation etc). Students will also learn the importance properly designed data collection efforts and the limitations imposed by data collection and interpretation activities. Application of statistics and GIS data interpretation methods will also be discussed.

OUT 120 ORIENTEERING/1 (1-0-0)

Become familiar with backcountry navigation. Wilderness travel potential will be expanded by learning the proper use of maps, compass, and other tools.

OUT 216 CHALLENGE COURSE FACILITATION / 2 (2-0-0)

Provides approaches to challenge course management including construction and maintenance of high and low elements, facilitation and group dynamics, risk management and safety, and challenge course philosophies.

PED 165 WILDERNESS SURVIVAL SKILLS/3 (3-0-0)

This course emphasizes the physiological, psychological and practical principles of survival. Survival equipment, wilderness improvising techniques, and wilderness dangers are included.

PER 200 OUTDOOR RECREATION PROGRAMMING/ 3 (3-0-0)

Provides effective planning, staffing, and budgeting for the outdoor experience for the maximum opportunity for a successful program. Issues of marketing and promotion, agency coordination, risk management, environmental impact, logistics and the customer needs and expectations are addressed.

PER 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.

PRA 100 SEASONAL PARK RANGER ACADEMY I/6 (6-0-0)

Conforms to National Park Service standards and Federal Law Enforcement Training Center (FLETC) certification requirements. Basic skills and knowledge necessary to perform the entry level duties as a seasonal Law Enforcement Ranger will be covered. Provide the student with basic knowledge of federal guidelines and competencies of Code of Federal Regulations (CFR). Emphasis will be on simulating actual situations.

**PRA 101 SEASONAL PARK RANGER
ACADEMY II/6 (6-0-0)**

Conforms to National Park Service standards and Federal Law Enforcement Training Center (FLETC) certification requirements. This course continues PRA 100's introduction into the basic skills and knowledge necessary to perform the entry level duties of a Seasonal Law Enforcement Ranger. This course introduces crime scene investigation. DUI detection, professional and radio communication.

**PRA 107 RANGER DRIVING TACTICS/
1 (1-0-0)**

This course covers the skills, knowledge, and abilities required for operation of Law Enforcement vehicles. Emphasis on defensive driving, and skills used in pursuit situations, both emergency and non-emergency. Students will demonstrate driving techniques.

PRA 180 INTERNSHIP/3 (0-0-3)

Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.