

CATALOG

2015-2016



PIKES PEAK COMMUNITY COLLEGE

Thanks for your interest in Pikes Peak Community College.

From start to finish this catalog will be your guidebook. It contains everything you need to know about PPCC.

If you would like to know more about the College or would like a tour of any of our campuses, just give our Enrollment Services Center a call at (719) 502-2000 or toll free at 866-411-PPCC.

LOCATIONS

Centennial Campus

5675 South Academy Boulevard
Colorado Springs, CO 80906

Downtown Studio Campus

100 West Pikes Peak Avenue
Colorado Springs, CO 80903

Rampart Range Campus

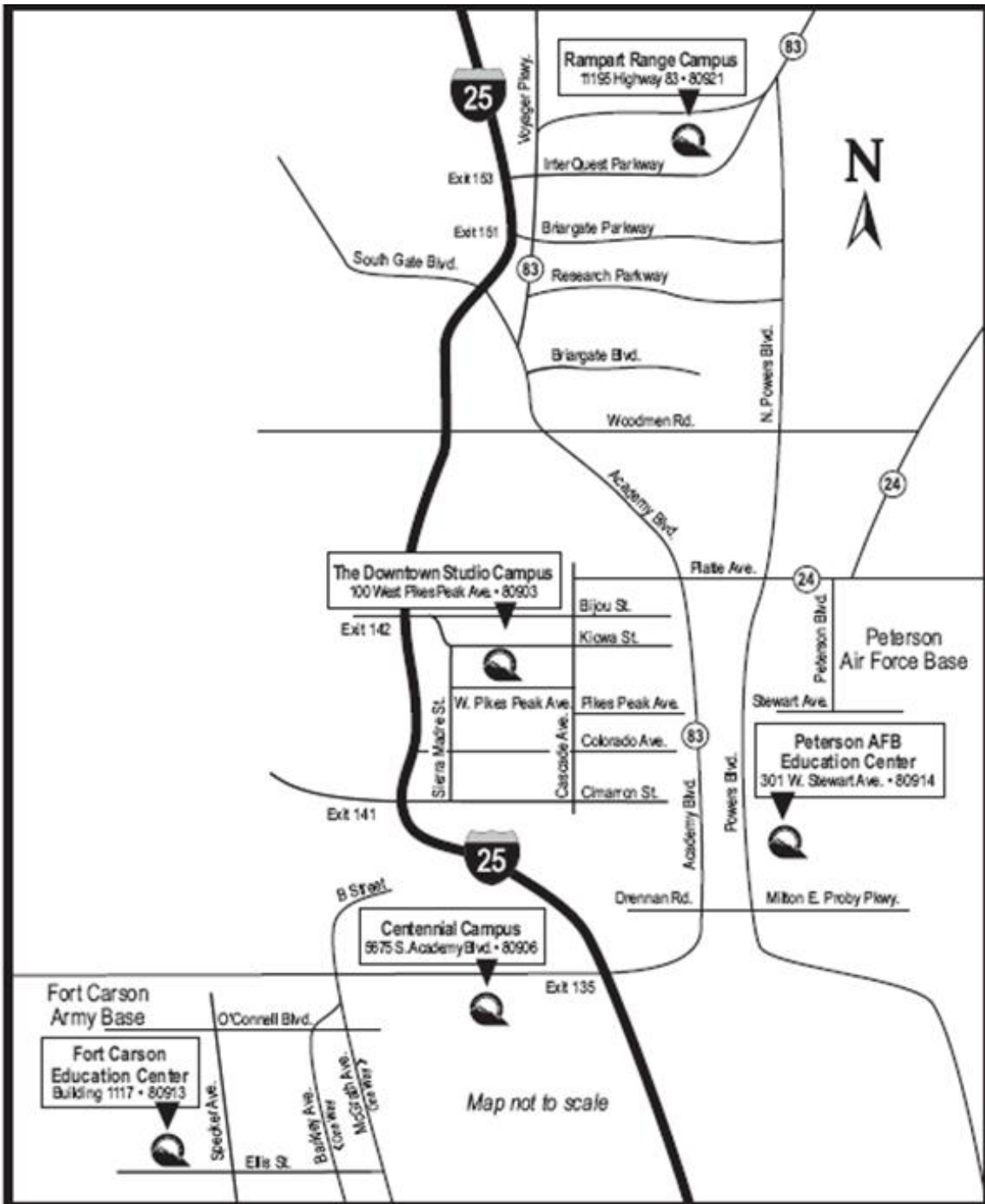
11195 Highway 83
Colorado Springs, CO 80921

Other Colorado Sites

Fort Carson • 719-502-4200
Peterson Air Force Base • 719-502-4300
U.S. Air Force Academy • 719-502-4300

719-502-2000 or 800-456-6847
719-358-2453 [video phone for hearing impaired]
www.ppcc.edu

Campus Maps



Pikes Peak Community College has three full-service campuses to serve the north, central and south areas of the city. Each offers a full array of academic programs, and enrollment and student services. Rampart Range Campus houses health profession educational programs.

The Downtown Studio Campus is a center for the fine arts and dance. Centennial Campus offers all academic disciplines as well as the occupational and technical programs. PPCC also has branch locations at three military education centers.

About this Catalog

Accreditation

The College is accredited by The Higher Learning Commission and is a member of the North Central Association, 230 South LaSalle Street, Suite 7-500, Chicago, IL 60604-1411, (312) 263-0456.

Changes

Catalog information is subject to change without notice. Published changes, including courses and programs approved after the catalog deadline, are available in the Enrollment Services Centers at all campuses and on the PPCC website. This catalog takes effect at the beginning of summer registration.

Gainful Employment

Beginning July 1, 2011, the U.S. Department of Education will require colleges to disclose a variety of information for any financial aid eligible program that "prepares students for gainful employment in a recognized occupation." What does this mean for you? Essentially that information regarding questions you may have about occupations, completion rates, placement rates, program costs and median loan debt may be found at ppcc.edu/ge.

Nondiscrimination Statement



Pikes Peak Community College does not unlawfully discriminate on the basis of race, color, creed, national origin or ancestry, sex, veteran status, age, disability, or sexual orientation in its employment or admissions to, access to, or treatment of persons in its educational programs or activities. Pursuant to Title VII of the Civil Rights Act of 1964 (Title VII), Section 504 of the Rehabilitation Act of 1973 (Section 504), the Americans with Disabilities Act of 1990 (ADA), the ADA Amendment Act of 2008 (ADAAA) and Age Discrimination in Employment Act of 1967 (ADEA), the college has established grievance procedures for its employees and/or job applicants. Specific complaints of alleged discrimination under Section 504 or the ADA (disability or veteran status) or Title VII (sex, race, national origin, or sexual harassment), Title IX (student related sex discriminating) or ADEA (age) should be referred to the Executive Director of Human Resource Services, 5675 South Academy Boulevard, Room C-202, Colorado Springs, Colorado 80906; (719) 502-2003; or the Colorado Community College System Office, 9101 East Lowry Blvd., Denver, CO 80230, (303) 620-4000; or the Colorado Civil Rights Division, Colorado Springs, CO, (719) 633-7518; or the U.S. Equal Employment Opportunity Commission, Denver, CO, 1-800-669-4000 (Voice) or 1-800-669-6820 (TTY); or U.S. Department of Education, Denver, CO, 303-844-5695.

TABLE OF CONTENTS

About PPCC.....	5
Getting Started.....	7
Tuition and Fees.....	10
Academic Standards.....	13
Student Conduct	18
Services for Students.....	29
Student Life	35
Services for the Community	37
Educational Programs	38
Degree & Program Requirements.....	42
Course Descriptions.....	122
College Administrative Staff	219
Faculty & Staff	221
Campus Directory.....	234
Index	238

ALL ABOUT PPCC

In This Section

History of the College.....	5
Vision Statement	5
Mission Statement.....	5
Required Disclosures	5
Planning for a Bachelor's Degree/Transfer Programs	5
Career and Technical Education Programs	5
Locations and Facilities.....	5
Come See Us.....	6
Use of College Facilities.....	6
College Calendar.....	6

History of the College

Pikes Peak Community College was established by a legislative act in 1968 and was then called El Paso Community College. When the College opened its doors in September, 1969, more than 800 students attended classes in rented buildings in Old Colorado City on the west side of town. Enrollment grew rapidly, and the need for permanent facilities soon became apparent. The full-service Centennial Campus was built at the south end of Colorado Springs in 1978. In that same year, the name of the College was officially changed to Pikes Peak Community College.

The Pikes Peak Region has experienced significant population growth during the last several decades, driving the community need for expanded educational services. This demand resulted in the opening of the Downtown Studio Campus in central Colorado Springs in 1986 and the Rampart Range Campus in the north end of the city in 1998.

Today, PPCC has grown and expanded to become the largest postsecondary educational institution in Colorado Springs and offers the most widely accessible and affordable education in the region. Serving the residents of El Paso, Teller, and Elbert Counties, PPCC offers more than 125 programs of study in transfer liberal arts and sciences areas and career and technical training.

Currently, Pikes Peak Community College helps over 20,000 people each year begin their education, advance their careers, and enrich their lives.

Vision Statement

Students succeed at Pikes Peak Community College.

Mission Statement

Our mission is to provide high quality educational opportunities accessible to all, with a focus on student success and community needs, including:

- occupational programs for youth and adults in career and technical fields,
- two-year transfer educational programs to qualify students for admission to the junior year at other colleges and universities, and
- a broad range of personal, career, and technical education for adults.

Required Disclosures

The College is required to disclose, on a yearly basis, certain types of information to all prospective and current students. These items include

- the Security Report on page 27
- the consequences of drug and alcohol violations on page 24

- the manner in which the College calculates refunds and repayments as it is stated in this catalog on page 11 and as stated in the Financial Aid Handbook available in the Enrollment Services Centers or online at www.ppcc.edu.
- the graduation rates for the College are available by request through the Institutional Research Office at 719-502-2023.

Planning for a Bachelor's Degree/Transfer Programs

Many students begin their college career at Pikes Peak Community College with the eventual goal of completing a four-year, baccalaureate degree (bachelor's degree). Students may complete their associate's degree, or the first two years of four-year bachelor's degrees, at Pikes Peak Community College and then transfer to four-year public or private institutions by following advising guides available for most arts and sciences programs. A good deal of arts and sciences bachelor's degrees may be obtained by completing an additional approximately 60 credit hours at a four-year college or university (an additional two years, at full-time status, beyond obtaining PPCC's associate's degrees).

Statewide transfer agreements between most Colorado public four-year colleges and universities and the Colorado Community College system allow students seamless transfer. Several Colorado colleges and universities provide guaranteed admission, special scholarships, and reduced application fees or special privileges for Colorado community college associate of arts (AA) or associate of science (AS) graduates. In addition, Pikes Peak Community College has special agreements with a variety of private in-state and out-of-state institutions. Some associate's of general studies (AGS) or associate's of applied science (AAS) degrees also have pathways toward obtaining bachelor's degrees. Students should consult with their faculty advisors during their first semester or as early as possible for detailed information about transfer programs. PPCC's transfer web pages provide additional information.

Career and Technical Education Programs

Career and technical education programs can help students get a job, change careers, or improve current job skills. The career and technical programs at Pikes Peak Community College teach the skills needed to work in a business, technical, industrial, service, or health career. Our programs offer curriculum and facilities that simulate the workplace. Depending on the program and the level of training, students may choose a two-year Associate of Applied Science degree or a Certificate of Achievement that can be earned in less than two years.

Locations and Facilities

To make a college education accessible and convenient to everyone, Pikes Peak Community College has established three service campuses in Colorado Springs. The Centennial, Downtown Studio and Rampart Range Campuses provide educational services to the south, central, north and north east areas of the city.

Each full-service campus is a one-stop center for students, and includes an Enrollment Services Center, providing admissions, financial aid, records, and cashier services. Services include a bookstore, library services, student life, student government offices and a Testing Center. Additionally, each campus provides Student Support Services, including student scheduling and academic advising, Learning Assistance Center/Tutoring, career services, and services for students with disabilities. Public bus

service reaches the Downtown and Centennial campuses from all parts of the city. There is currently no bus service to Rampart Range Campus.

Other sites around the region include education centers at Fort Carson, Peterson Air Force Base, and the U.S. Air Force Academy.

Come See Us

We welcome visitors to Pikes Peak Community College, and we are happy to show prospective students around our campuses. To arrange for a tour of any of our locations, call us at 719-540-PPCC or toll free at 866-411-PPCC.

Use of College Facilities

Outside groups that want to use a college facility should contact Campus Rentals at Centennial Campus at 719-502-2333. Facilities used by in-house clubs and groups are scheduled on a space-available basis at no charge unless special security or maintenance service is required.

CENTENNIAL CAMPUS

5675 South Academy Boulevard
Colorado Springs, CO 80906
719-502-2000, 800-456-6847
719-358-2453 [video phone for hearing impaired]

The Centennial Campus is a modern and well-equipped facility located in southern Colorado Springs. Transfer, career, and technical programs are offered. The full-service campus offers a complete range of student services, including admissions, advising, bookstore, financial aid, records, testing, veteran's affairs, tutoring, disabled student services, and career services.

The Centennial Campus provides a library, theatre, lecture halls, videoconference center, writing center, computer laboratories, language and culture lab, child development center, meeting and conference rooms, distance learning classroom, and science, career, and technical laboratories. Sports and recreation facilities include a gymnasium, fitness center, tennis courts, soccer field, and running track. The Campus Center houses the Campus Life Office, Student Government, the Grove, meeting rooms and more.

Convenient parking is available to students, employees, and visitors in lots C, D, and E. Handicapped parking is reserved near most building entrances, including special spaces for wheelchair access. Parking Lot A is for people on short-term business at the College. Public bus service comes to the Centennial Campus from all parts of the city. The Centennial Campus is fully accessible to persons with disabilities, including those with wheelchairs. Special assistance is available through the Office of Accommodative Services and Instructional Support (OASIS) by calling 719-502-3333.

DOWNTOWN STUDIO CAMPUS

100 West Pikes Peak Avenue
Colorado Springs, CO 80903

The Downtown Studio Campus of PPCC has a convenient, central location in the heart of downtown Colorado Springs. It is located minutes away from the Bijou Exit (142) off I-25. The Downtown Studio Campus is a full-service facility, providing admissions, advising, bookstore, cashier, career services, financial aid, records, registration, testing, tutoring, campus life and activities, and other services for students. The Downtown Studio Campus includes art and dance studios, an art gallery, a performance area, and music practice studios.

The Downtown Studio Campus offers courses leading to Associate of Arts, Associate of Science, Associate of General Studies, and some Associate of Applied Science degrees. The Paralegal, Interior Design, Architecture, Music and Dance Programs make their home at the Downtown Studio Campus. Courses are conveniently scheduled from 8 a.m. to 10 p.m. Monday through Friday and from 8:30 a.m. to 4 p.m. on Saturday.

The Gallery at the Downtown Studio Campus is a free, public art gallery that features works in all media created primarily by artists in the Pikes Peak Region. The Gallery places a strong emphasis on presenting multicultural and multimedia exhibits. Opening receptions are held for each exhibit during which music, dance, or poetry readings frequently enhance the themes of the exhibits. Other events are open to the public at a nominal admission charge.

Convenient parking is available during class hours on the third level (P3) in the Palmer Center Garage. The garage's entrance is just across the street from the Downtown Studio Campus beneath the Antlers Hilton Hotel. Campus users validate parking on campus in the Student Commons area (first floor, north building). Parking is also available at metered spaces on the street.

RAMPART RANGE CAMPUS

11195 Highway 83
Colorado Springs, CO 80921

The Rampart Range Campus is conveniently located in northern Colorado Springs. The campus provides easy access via the InterQuest Parkway Exit (153) off I-25.

A full array of support services and programs is available to students, including admissions, bookstore, career services, cashier, accommodative services and instructional support, financial aid, food services, library, career services, placement testing, records, student government, child development center, and campus life and activities.

The Rampart Range Campus offers courses leading to Associate of Arts, Associate of Science, Associate of General Studies, and Associate of Applied Science degrees.

It offers the latest in advanced learning technology. Many classrooms are equipped with student and faculty computers, multimedia presentation capabilities, computerized projection units, and digitized white boards. Computerized lab equipment, a CD ROM library, and a fiber optic network are part of the instructional technology offered at this campus.

Convenient parking is available at Rampart Range Campus. The Rampart Range Campus is a fully accessible facility. Handicapped parking is reserved near most building entrances, including special spaces for wheelchair access.

MILITARY SITES

Pikes Peak Community College offers a variety of courses and programs at the local military sites. The courses are held at varying dates and times that differ from those of the traditional semester. The military sites include the following:

Fort Carson Education Center

Building 1117, Room 118
Corner of Specker and Ellis
Fort Carson, CO 80913
719-502-4200

Peterson Air Force Base Education Center

301 West Stewart, Building 1141, Room 112
PAFB, CO 80914
719-502-4300

U.S. Air Force Academy Education Services Center

Community Center Library
5136 Red Tail Drive
USAFA, CO 80840
719-502-4300

College Calendar

The Academic Calendar can be found at <http://www.ppcc.edu/connect/calendar/academic-dates/>.

GETTING STARTED

In This Section

Class Schedule	7
Concurrent Enrollment	7
New Students.....	7
Readmit Students.....	7
Transfer Students to PPCC.....	7
International (F1) Students	7
Career Planning and Advising Centers	7
Registration.....	8
Placement Testing	8
Basic Skills Assessment Matrix.....	9

We believe that everyone who is able to successfully complete courses should have a chance to attend college.

Prospective students who are at least 17 years old or have a high school diploma, a GED (High School Equivalency Diploma), or a college degree will, in most cases, be automatically admitted to PPCC.

However, admission to the College does not guarantee admission into a desired program. Some programs are limited to a certain number of students each semester. We have a priority system so that program applicants are selected impartially.

Class Schedule

Our class schedule is published every semester and is available on the PPCC website at www.pccc.edu. It lists the time and location for each course. Fall and spring terms are 15 weeks long and may include finals week in some areas. The summer term is 10 weeks long.

To provide more flexibility, we offer some classes for 5-week, 7 ½ week, or other scheduling options. Open-entry/open-exit sections allow students to enter and complete the course at their own pace.

If you are looking for online classes, PPCC eLearning sections offer flexible scheduling options for students.

Class schedule information may change without notice. All PPCC online courses will have an "N" in the section number.

Concurrent Enrollment

Concurrent Enrollment (CE) is a program for college-bound students seeking degrees and certificates or students who simply want to earn college credit while still in high school. CE enables high school-aged students to take college classes at PPCC and earn high school and/or college credit. Students have the opportunity to enroll in any courses for which they meet the prerequisites. In general, high schools will not pay for developmental courses.

New Students

The first step toward enrollment is to complete the College Opportunity Fund application, available online at www.CollegeinColorado.org. This application ensures that resident students receive the State higher education stipend. Failure to register will result in higher tuition costs for the resident student.

The next step is to complete an application for admission. Potential students are encouraged to apply online at www.pccc.edu. Students should apply early to get the best possible start in college.

Readmit Students

Students who have been enrolled at Pikes Peak Community College before but have not attended for two or more semesters, including summer, must re-submit an Application for Admission.

Transfer Students to PPCC

To transfer credits from another college, students must request that an official transcript be sent for evaluation to the Enrollment Services Centers at PPCC from their prior institution. Request forms are available from the Enrollment Services Centers. (See Academic Standards on page 13)

International (F1) Students

Anyone may attend Pikes Peak Community College regardless of immigration status. PPCC defines an International Student as anyone who will attend with or apply for an F1 student visa. Students with F1 visas should download the application and the Affidavit of Support from www.pccc.edu or apply in person at the Enrollment Services Center on the Centennial Campus.

Prior to applying for the F1 visa, international students must submit the following information:

- Proof of financial ability to pay all expenses associated with attending school full time for 12 months
- Proof of high school completion
- Transcripts from college courses taken in the United States
- Demonstrate English proficiency by submitting a TOEFL score or equivalent. Transfer students who have completed English I and II with a B or better do not need a TOEFL score.

A minimum TOEFL score of 450 (paper test) or 45 (Internet based test) is necessary for admission to Pikes Peak Community College. Students scoring between 450-550 (paper test) or 45-79 (Internet based test) will see an English as a Second Language (ESL) advisor upon arrival at PPCC. Students may need ESL classes before enrolling in an academic program. Please contact the English Language Institute (ELI) office at 719-502-3057 for more information regarding ESL courses.

All international students take an English assessment prior to registration regardless of TOEFL score. Please call 719-502-3021 for more information about the admissions process. Application deadlines are:

Summer Semester – April 15

Fall Semester – July 15

Spring Semester – December 1

Career Planning and Advising Centers

The Career Planning and Advising Centers guide students as they answer the fundamental question, "Why are you here?" Career Planning assists students with clarifying their career goals, choosing the PPCC educational program that fits their needs best, and mapping their path for the chosen course of study. Once the course of study is selected, students are helped to choose the appropriate classes that will meet their goals. Advising is required for new students in degree or certificate programs, and is strongly recommended for all other students. Career Planning and Advising services are available at all PPCC campuses. First semester advising is done in the Career Planning and Advising centers; advising for continuing students is done by the student's assigned faculty advisor (with services provided by Career Planning and

Advising if the faculty advisor is not available). The following services are provided at the centers:

- Career counseling (individual and group) to help with decision-making, goal setting, and choosing a college course of study
- Career assessments to match personal characteristics with occupational options
- Explanation of basic skills (placement test) results, and assistance in selecting classes to resolve any academic deficiencies
- Help in choosing and registering for classes for the first semester of enrollment
- Information on course sequence and prerequisites
- Help in adding or dropping classes
- Assignment of a faculty advisor for guidance in future semesters
- Assistance with changing a course of study or faculty advisor
- Advising on classes when a faculty advisor is not available
- Employment services to help students market themselves and find a job

Registration

After meeting with an advisor and selecting a schedule of classes, the next step is to register. The registration period begins several months before the start of each new semester. Students may register by using the Internet, or on-site at the Centennial, Downtown Studio, or Rampart Range Campuses. The class schedule published each semester includes details about how to register. The schedule also explains how to add, drop, or change classes once enrolled. Note that instructors or other College staff are not responsible for dropping you from or changing registration in your classes.

Placement Testing

Determining the appropriate level of academic coursework is mandatory in Colorado; therefore, taking a college skills placement test is required of all

- First-time, degree-seeking undergraduates;
- Non-degree seeking undergraduates who change to degree-seeking status;
- Non-degree seeking first-time undergraduates who have graduated from a Colorado public or private high school (or its equivalent) during the previous academic year.

Students exempted from assessment include those who:

- Have completed college-level transfer mathematics and college-level transfer writing courses or a remedial course (if required) in mathematics, writing, and reading are exempt from assessment;

- Earned a baccalaureate degree;
- Earned a transfer-oriented associate degree (i.e., AA or AS); excludes AGS and AAS graduates; or
- Are pursuing a vocational certificate. (Institutions may be more stringent and require assessment of certificate-seekers).

The PPCC Testing Centers are located in A-117 at Centennial Campus, S-101 at Rampart Range Campus and room S-102 at the Downtown Studio Campus. College skills placement tests may be taken during Testing Center hours on a walk-in basis at any of the campus locations above, as well as Ft. Carson, Bldg. 1117 and Peterson AFB, Bldg. 1141. Test results have no effect on acceptance to PPCC. College skills placement test scores will be available a few minutes after the tests are completed so that students can take them to the Career Planning and Advising Center for assistance in selecting classes.

Since placement into basic skills instruction is now mandatory in Colorado, the placement test is very important. We advise students to review English, math, and reading with materials available in the Library and the Testing Center before taking the test. Please read the directions carefully and do your very best work when taking the test.

All new students entering the English Language Institute (ELI) must take a placement test. This test will place new students into one of three levels; basic, intermediate, or advanced. The test is available on computer at all campuses. ELI students should call 719-502-3535 for further information.

Accommodations are available for students with documented disabilities.

There is a fee to retake any section of the placement test. You must have a valid photo ID to test. Testing hours are Monday and Tuesday, 8 a.m. to 4 p.m.; Wednesday, Thursday, Friday, 8 a.m. to 3 p.m.

If you do not place into a class, you can retake the placement test (fee required). A list of websites is available at any Testing Center. You may also choose to go to the Learning Assistance Center at Centennial Campus or the Library at either The Downtown Studio or Rampart Range Campus to prepare for the test.

Please call any of the Testing Centers for additional information: Centennial Campus Testing Center, 719-502-3370; Rampart Range Campus Testing Center, 719-502-3380; or Downtown Studio Campus Testing Center, 719-502-3390.

Community Colleges of Colorado

Basic Skills Assessment Matrix English & Mathematics Courses

College prep reading classes have been combined with college prep English classes to create College Composition and Reading courses (CCR). Placement into a CCR course will be based on both the Reading Comprehension and the Sentence Skills Accuplacer test scores. The lowest score of the Sentence Skills and Reading Comprehension should be used to decide placement. Students have the option to retest once per semester to be placed in a higher course.

English Courses

ACCUPLACER READING COMPREHENSION		ACCUPLACER SENTENCE SKILLS	COURSE PLACEMENT
0-39	and/or	0-49	Refer to LAC or Adult Basic Education program
40-61	and/or	50-69	CCR 092 College Composition & Reading
62-79	and/or	70-94	CCR 094 Studio 121 AND ENG 121 English Composition I: CO1
80-120		95-120	ENG 121 English Composition I: CO1
ACT 17+	AND	ACT 18-25	ENG 131 Technical Writing
SAT 430+		SAT 440+	
ACT 17+	AND	ACT 26+	ENG 122 English Composition II: CO2

College prep math classes have been restructured. The new Developmental Math sequence is MAT 050 and MAT 055. Math Modules have been restructured. An ACT score of 19-22 will no longer allow students to register for a college preparatory math course. Placement will be decided based on the math requirements of the student's degree and their Elementary Algebra (EA) or Arithmetic (AR) Accuplacer math test scores. Students have the option to retest once per semester to be placed in a higher course. The College Level Math Placement (CLM) test is offered for students to place into MAT 166 or MAT 201. The student must score AR 100+ and EA 100+, or have an ACT 23+ to qualify for the CLM test.

Math Courses

ACCUPLACER MATH	ACT / SAT SCORE	COURSE PLACEMENT
AR 0-39		Refer to LAC, Math Department or Adult Basic Education program
EA 45-59		MAT 025 Algebraic Literacy Lab AND MAT 055 Algebraic Literacy (only for students needing MAT 121+)
EA 30-44 or AR 40+		MAT 050 Quantitative Literacy
EA 60-84		MAT 055 Algebraic Literacy (only for students needing MAT 121+)
EA 30-60 or AR 40+		MAT 107 Career Math AND MAT 091 Applied Quantitative Lab
		MAT 112 Financial Mathematics AND MAT 091 Applied Quantitative Lab
		MAT 103 Math for Clinical Calculations
		MAT 107 Career Math
		MAT 109 Geometry
EA 61+	19 / 460	MAT 112 Financial Mathematics
		MAT 120 Math for Liberal Arts: MA1
		MAT 155 Integrated Math I (for Elementary Education majors only, online only)
EA 85+	19 / 460	MAT 156 Integrated Math II (for Elementary Education majors only, online only)
EA 85+	23 / 460	MAT 121 College Algebra: MA1
EA 100+ and CLM 55-99	24	MAT 122 College Trigonometry: MA1
EA 85+	23 / 460	MAT 123 Finite Math: MA1
		MAT 125 Survey of Calculus: MA1
EA 100+ and CLM 55-99	25	MAT 166 Pre-Calculus: MA1
		MAT 135 Introduction to Statistics w/ MAT 179 Computer Applications for Statistical Procedures
EA 85+	21 / 460	
EA 100+ and CLM 100+	28	MAT 201 Calculus I: MA1

KEY TO MATH TESTS: AR = Arithmetic EA = Elementary Algebra

TUITION AND FEES

In This Section

Drop for Non-Payment.....	10
Tuition	10
College Opportunity Fund (COF)	10
Tuition and Fees (2014-15)*	10
Student Activity Fees.....	10
Residency Classification Appeals	11
Proof of Lawful Presence	11
Refunds/Adjustments	11
Books	11
Financial Aid	11
American Opportunity Credit.....	11
Earned Income Tax Credit/Child Tax Credit	12
Programs	12
Foundation Scholarships	12
Grants	12
Loans	12
Employment Opportunities	12

Drop for Non-Payment

If you have not applied Financial Aid, actually paid for your classes, or made payment arrangements (including VA and TA Benefits, other third party sponsor, & FACTS Deferred Payment Plan) with the Cashier's Office at any campus, YOU WILL BE DROPPED FROM ALL OF YOUR CLASSES.

To ensure your seat in classes you have registered for, it is important to make payment arrangements for your tuition as soon as you register. This can be accomplished by applying early for Financial Aid if you intend to do so, or by making payment arrangements using a deferred payment plan with the cashier's office.

Tuition

For tuition purposes, students are considered either in-state or out-of-state when they apply for admission. This practice is governed by Colorado statute. To be entitled to in-state tuition, students must live in Colorado and fulfill specific citizen responsibilities for one full calendar year before they register. Contact the Enrollment Services Centers for more information or see the second page of the Application for Admission form.

Active Duty Military, Veterans and their dependents. Active Duty Military who are stationed (or TDY) in Colorado and their eligible dependents can receive In-State Tuition rates by presenting a copy of their valid Military ID to any Military and Veterans Programs or Enrollment Services office. Deployed soldiers should contact mil.programs@ppcc.edu for assistance with in-state tuition. In-state tuition rates will be granted through the term the ID card expires. Veterans (or their eligible dependents) whose ETS date is prior to the start of class should inquire about receiving in-state tuition rates by submitting a Veterans Waiver Form, also available through Military and Veterans Programs or Enrollment Services.

Olympic Training Center. Olympic athletes may pay in-state tuition rates. Student status must be verified by the U.S. Olympic Training Center. A separate form must be submitted to the Enrollment Services Centers **prior to the census date** each term for which the in-state tuition rate is requested. The College has no obligation to honor late requests, in which case the student may be held responsible for payment of the non-resident tuition rates.

College Opportunity Fund (COF)

The State of Colorado historically subsidized higher education for in-state students by giving money directly to the colleges. In 2004 the Colorado Legislature enacted a new law establishing the College Opportunity Fund (COF). Under this new law, the State gives this money for the subsidy to students by sending it to the institution the student designates. This money, known as the College Opportunity Fund stipend, will be applied to an in-state student's tuition if the student applies for and authorizes the use of the stipend. The college you are attending will receive the money and it will appear as a credit on your tuition bill. Currently the College Opportunity Fund (COF) stipend is estimated to be worth \$75 per credit hour.

Failure to sign up and authorize COF will result in the loss of this stipend. To sign up go to <https://cof.college-assist.org>.

Estimated Per Credit Hour Base Tuition Calculation

Total estimated base in-state tuition	\$199.90
Minus estimated College Opportunity Fund Stipend	\$75.00
Student's estimated share of in-state tuition	\$124.90

Tuition and Fees (2014-2015)*

Tuition for in-state and out-of-state.

The in-state tuition rate for 2014-2015 is \$124.90 per credit hour after COF (see above). The out-of-state tuition rate for 2014-2015 is \$512.35 per credit hour. There are some courses that have higher tuition rates. Please refer to the tuition and fee chart at www.ppcc.edu/prospective-students/tuition-fees/ for more information.

Student fees.

The student fee rate for 2014-2015 is \$9.02 per credit hour plus a \$12.55 registration fee.

Course fees.

Some courses have extra fees ranging from \$5.00 per credit hour to \$1,075.00 per course. Refer to www.ppcc.edu/prospective-students/tuition-fees/ for a detailed list.

**Tuition and fees are set by the State Legislature and Governing Board late in the fiscal year and potential increases for the 2015-2016 year are unknown at the time of this printing. Tuition and fee rates for off-campus locations may vary according to operational costs.*

Student Activity Fees

Student fees are legally required of all students. The fees support school activities, concerts, recreation, clubs and organizations, and special events for students. The fees also support Student Government and the Campus Center at the Centennial Campus, student spaces at the Downtown Studio and Rampart Range Campuses, student activities at all campuses, the Child Development Centers and the schools sustainability efforts.

Student Government is responsible for allocating their portion of your Student Activity Fees. The Budget Hearing Committee of Student Government meets annually in the spring to hear budget requests from recognized student clubs and organizations and to allocate those monies. Organizations included in this disbursement are Student Government, Student Activities, the Campus Center, recognized clubs who submit a budget request with justification (such as PTK, PBL, BSU, etc.), special projects and others. For further information you may contact the Campus Life Office in room A-210 or Student Government in room A-204 at the Centennial Campus.

The parking fee is used to provide and maintain parking areas. A free hang tag for the Downtown Studio Campus parking garage is available for vehicles at the Public Safety Office.

Upon first enrolling at PPCC, students must get a student ID card from the Campus Life Office. This ID is good for the student's entire PPCC career. If lost or stolen, a replacement ID will cost \$10. Students must have a valid ID to use the library and computer labs, to attend student activities, and to verify current student status.

Residency Classification Appeals

Out-of-state students pay higher tuition than in-state students. Students classified as out-of-state who believe that they are in-state may appeal by picking up a "Petition for In-State Tuition Classification" and a copy of the Colorado statute from the Enrollment Services Centers. The petition and required supporting documents must be submitted to the Enrollment Services Centers by the deadline listed in the class schedule. Turning in a petition does not guarantee that residency status will be changed. If the petition is denied, the student must drop classes by the deadline or pay out-of-state tuition and fees.

To challenge the ruling on a petition, students may appeal to the Tuition Classification Review Committee. Ask the Enrollment Services Centers personnel for details.

The general requirements for Colorado residency are as follows:

- 12 months of continuous domicile in the state of Colorado
- Have filed Colorado state income tax returns
- Have a Colorado driver's license

For the entire Colorado policy regarding residency, go to higher.ed.colorado.gov/Finance/Residency/default.html. All information used to prove Colorado residency must be submitted to the Enrollment Services Center by the first day of class for the full term.

Proof of Lawful Presence

Colorado House Bill 1023 requires all students receiving public benefits (i.e. in-state residency or other reduced tuition rates) to prove their lawful presence in the U.S. Students may **comply by applying for the College Opportunity Fund (COF) or Financial Aid**. Students who choose not to complete these steps must show a Colorado driver's license or Colorado identification card or sign an affidavit in the presence of a PPCC Enrollment Services Center staff member. Failure to comply will result in the loss of the reduced tuition benefits. There is no appeal process once these benefits are lost. For more information go to www.ppcc.edu/current-students/records/hb1023 or stop by any PPCC Enrollment Services Center.

Refunds/Adjustments

To receive a tuition refund, or an adjustment, students must drop class(es) by the deadline listed in the class schedule. No refunds or adjustments will be made after that date except in rare cases. Appeal forms are available in the Enrollment Services Centers or on the Internet. Appeals for past school years cannot be considered. Contract programs may have different refund procedures.

Books

The bookstores at Centennial, the Downtown Studio and the Rampart Range Campuses stock books and supplies needed for courses offered at that campus. A wide variety of other school supplies and PPCC insignia items are also available at the bookstores.

Textbooks may be purchased from our bookstore online at www.ppccbookstore.com. Course material information in accordance with the College Opportunity and Affordability Act is available at www.ppccbookstore.com.

The bookstores have several opportunities for you to sell your eligible books back. The demand for books and the condition of your books will determine eligibility for all buyback opportunities listed below.

- "Top Dollar Buyback" is scheduled at the end of each semester. This is an opportunity for you to sell your books back for up to 50 percent of the bookstore purchase price.
- Buybacks are also scheduled at the beginning of each term. This buyback offers wholesale value for your eligible books.
- In addition, between scheduled buyback events, the bookstore will review your books for buyback eligibility on a daily basis. If eligible, we can pay you wholesale value for your books. This is available online at www.ppccbookstore.com or in one of our stores during normal business hours. There are circumstances where buyback proceeds may be applied to outstanding balances at the College.

For more information please call 719-502-2168 or 719-502-2169.

Financial Aid

There are numerous financial resources available for students who attend Pikes Peak Community College. Students should start the process by applying online for the Free Application for Federal Student Aid (FAFSA). The application will explain which tax return and income information students need for reference and federal tax returns may also be downloaded automatically if the student has filed an electronic tax return two weeks prior to doing the FAFSA. This application is available on the Internet at www.FAFSA.gov. If signed electronically, this process takes less than a week for the school to receive. Students are encouraged to apply as soon as possible. Applications for the next academic year (beginning in late August) were available January 2. To avoid delays, please complete the FAFSA and do so as soon as a decision is made to apply for admission to the College.

No other documentation is necessary until the U.S. Department of Education processes the request. If it is necessary for the school to request more information after the results have been received, notifications are made via the student's college assigned email.

To learn more about financial aid programs, how aid is distributed, student rights and responsibilities, or policies and procedures, please contact the Enrollment Services Center or review this information online at www.ppcc.edu.

American Opportunity Credit

Under the American Recovery and Reinvestment Act (ARRA), more parents and students qualify for a tax credit, the American opportunity credit, to pay for college expenses.

The American opportunity credit originally modified the existing Hope credit for tax years 2009 and 2010, and was later extended for an additional two years – 2011 and 2012, making the benefit available to a broader range of taxpayers, including many with higher incomes and those who owe no tax. It also adds required course materials to the list of qualifying expenses and allows the credit to be claimed for four post-secondary education years instead of two. Many of those eligible qualify for the maximum annual credit of \$2,500 per student.

The full credit is available to individuals, whose modified adjusted gross income is \$80,000 or less, or \$160,000 or less for married couples filing a joint return. The credit is phased out for taxpayers with incomes above these levels. These income limits are higher than under the existing Hope and lifetime learning credits.

Special rules applied to students attending college in a Midwestern disaster area for tax-year 2009, only, when taxpayers could choose to claim either a special expanded Hope credit of up to \$3,600 for the student or the regular American opportunity credit.

If you have questions about the American opportunity credit, these questions and answers might help. For more information, see American opportunity credit.

Earned Income Tax Credit/Child Tax Credit

The Earned Income Tax Credit or the EITC is a refundable federal income tax credit for low to moderate income working individuals and families. Congress originally approved the tax credit legislation in 1975 in part to offset the burden of social security taxes and to provide an incentive to work. When EITC exceeds the amount of taxes owed, it results in a tax refund to those who claim and qualify for the credit.

To qualify for Earned Income Tax Credit or EITC or simply called EIC, you must have earned income from employment, self-employment or another source and meet certain rules. In addition, you must either meet the additional rules for Workers without a Qualifying Child or have a child that meets all the Qualifying Child Rules for you. Tax payers must meet certain requirements and file a tax return, even if they do not have a filing requirement.

For more information including help in determining whether individuals and their families qualify, go to www.irs.gov/publications. Please consult this website before you file your taxes. It is estimated that 25 percent of all eligible individuals do not take advantage of this program.

The Child Tax Credit is a credit that may reduce your tax by as much as \$1,000 for each of your qualifying children. The Additional Child Tax Credit is a credit that you may be able to take if you are not able to claim the full amount of the Child Tax Credit. You may not qualify for the Child Tax Credit, but qualify for the Additional Child Tax Credit.

Programs

There are four types of financial aid. Scholarships are generally based on school grades, need, or accomplishments in a particular area of study. Grants are federal and state programs based on demonstrated financial need. Scholarships and grants do not need to be repaid. Loans provide funds while students are attending school but must be repaid. Work-study agreements allow students to work for the College while enrolled. The Student Financial Aid Handbook, available in the Enrollment Services Centers or online at www.pgcc.edu/prospective-students/financial-aid-information/handbooks describes each of these programs.

Foundation Scholarships

The Foundation for Pikes Peak Community College provides scholarship support to many PPCC students each year. Go to www.pgcc.edu/scholarships for more information about available scholarships and how to apply. Questions can be directed to scholarships@pgcc.edu.

Grants

- Colorado Student Grants (CSG)
- Federal Pell Grants (PELL)
- Federal Supplemental Educational Opportunity Grants (FSEOG)

Loans

- Federal Direct Stafford Student Loans (subsidized and unsubsidized)
- Federal Direct Parent Loans (PLUS)
- Studentloans.gov allows students and parents meeting federal eligibility requirements to apply for a Stafford and/or PLUS loan online.

Employment Opportunities

- Federal College Work-Study Employment
- Colorado Work-Study Employment
- VA Work-Study Employment (See Military and Veterans Programs for more information)

ACADEMIC STANDARDS

In This Section

Maximum Course Load.....	13
Change of Major/Program.....	13
Credit by Examination.....	13
Transfer to PPCC.....	13
Grading System.....	13
Grading Options.....	14
Grade Changes.....	15
How to Calculate Your GPA.....	15
Repeated Courses.....	15
Academic Fresh Start.....	15
Academic Progress Standing.....	15
Academic Concerns.....	16
Term Academic Honors.....	16
Graduation Honors.....	16
Application for Certificate or Degree.....	16
Graduation Ceremony.....	16
Assessment for Student Success.....	17

Students are expected to attend all classes, laboratories, and shops as scheduled unless there is a compelling reason to be absent.

Maximum Course Load

A course load, determined by the student and the advisor, may not exceed 18 credit hours per semester without the approval of the instructional division dean. The standard student load of a full-time student is 15 credit hours per semester although 12 credit hours are considered full-time. Certain career and technical programs approved by the State Board for Community Colleges and Occupational Education may require students to take up to 24 credit hours per semester. For such programs, students will be allowed to take all necessary courses. In no case may a course load exceed 24 credit hours per semester except by written approval of the Vice President for Instructional Services at or before the time of registration.

Student work load for a course should be estimated according to the following formula: two hours of outside preparation for every one hour of lecture and one hour of outside preparation for every two to three hours of laboratory. Any course syllabus that indicates different preparation times takes precedence over this general requirement.

Change of Major/Program

To change a declared major, students must see staff in the Career Planning and Advising Centers. A change in major places students under the academic and curriculum requirements of their new program as published in the current college catalog.

Credit by Examination

Students may take a comprehensive examination for credit if they are enrolled in a course and have the approval of their instructor and dean. Students must complete the examination by the census date for the course and will receive the grade earned on the examination as a final grade for the course. Students may attempt a test-out only once per course.

Transfer to PPCC

All credits earned at regionally accredited colleges or universities (including PPCC) or other approved educational institutions may be applied toward fulfilling PPCC program requirements. Transferability of credit is based on the following conditions:

- Credits must have been earned within 15 years prior to admission to PPCC.
- Courses in which a grade of C or above was earned will be accepted in transfer when the courses are applicable to PPCC programs and in accordance with PPCC requirements. Credit will be transferred only from an official transcript from the originating institution.

Students who have credits they wish to transfer to PPCC that can replace a substandard grade earned at PPCC must see an advisor to initiate that request. If approved, this will result in the points associated with that grade being excluded from the student's cumulative GPA. The grade earned at PPCC will still appear on the student's official transcripts. Other institutions receiving a PPCC transcript for transfer of academic courses are not bound by this college policy and may choose to calculate the student's transfer GPA to include all grades, even those excluded by PPCC under this policy.

Grading System

INVENTORY OF COMMON GRADING SYMBOLS

Grade	Quality Points	Interpretation
A	4	Excellent or Superior
B	3	Good
C	2	Average
D	1	Deficient
F	0	Failure
I		Incomplete
S		Satisfactory
U		Unsatisfactory
S/A		Satisfactory (A-level) work in a developmental course
S/B		Satisfactory (B-level) work in a developmental course
S/C		Satisfactory (C-level) work in a developmental course
U/D		Unsatisfactory (D-level) work in a developmental course
U/F		Unsatisfactory (F-level) work in a developmental course
W		Withdrawal
AU		Audit
AW		Administrative Withdrawal
*		Transfer Grade
Place Holders		
SP		Satisfactory Progress
Z		Grade not yet reported
CPL		Credit awarded through Credit for Prior Learning

AU – Audit

By auditing a course, a student may participate in course activities, but does not receive a formal transcript grade. Students must indicate intent to audit a course at registration or by the deadline listed in the course schedule. Audited courses are not eligible for the College Opportunity Fund stipend. Students will be responsible for the full in-state or out-of-state tuition. Audited courses do not meet the credit hour requirements for financial aid or veteran benefits and may not be applied to certificates or degrees.

AW – Administrative Withdrawal

This "withdrawal" grade is assigned by the College when a student has been withdrawn for administrative reasons. No academic credit is awarded. The course will count in attempted hours.

I – Incomplete

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

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

In requesting an Incomplete grade the student must present to the instructor the documentation of circumstances justifying an Incomplete grade.

The instructor will complete and sign an Incomplete Grade Contract and will submit it to Enrollment Services with final grades for the semester. The instructor must assign an incomplete grade on the regular grade roster in a timely fashion.

Incomplete Grade Contract must include the following information:

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

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

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

Incomplete grades which are not converted to a letter grade by the instructor after one subsequent semester (not including summer semester) will revert to an F grade. If the student would have earned a letter grade higher than an F without completing the work, faculty should be encouraged to submit that higher grade before the automatic conversion to F.

S – Satisfactory

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

U – Unsatisfactory

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

S/A, S/B, S/C

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

U/D, U/F

These are unsatisfactory grades awarded only for developmental courses. The D and F indicate the level of unsatisfactory performance. These grades are not included in the GPA calculation. The course will count in attempted credits, but will not carry earned credits.

W – Withdrawal

The "Withdrawal" grade is assigned when a student officially withdraws from a course. A withdrawal can only be processed during the first 80 percent of the course. No academic credit is awarded. The course will count in attempted hours.

Last Date of Attendance

Faculty are required to provide the last date of attendance for each student who is awarded an F or U/F grade.

Place Holders**SP – Satisfactory Progress**

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

Z – No Grade Submitted

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

CPL – Prior Learning Credit

A symbol of "CPL" indicates that the course and credits to which it is attached were awarded according to BP 9-42, Credit for Prior Learning.

Repeat Field

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

NOTE: Courses with a grade of D or F are not generally transferable and will not transfer to other institutions under GT Pathways or the 60+60 Bachelor's Degree Transfer program.

Grading Options

Satisfactory/Unsatisfactory: students may request to take up to six credit hours each semester on a Satisfactory/Unsatisfactory (S/U) grading basis. They may take a maximum of 15 credit hours under this grading option while enrolled at PPCC. (Credit hours earned in a course where S/U is the only grading standard count toward this 15-hour maximum.) Students must have prior approval by the appropriate division dean for each course unless the course is only offered with the S/U option. This option must be requested at the time of registration. After the drop/add period,

this option may not be changed except by written recommendation from the appropriate division dean and approval by the Vice President for Instructional Services. Pikes Peak Community College considers a grade of C or better to be satisfactory. A satisfactory grade earned under this option does not affect the Grade Point Average (GPA) but increases the total number of credit hours passed. Grades of D or F will be considered unsatisfactory, will affect the GPA, and will increase the total number of credit hours attempted.

Audit: students may register to audit any course by indicating this option on the registration form at the time of enrollment. The audit option is not available online. The regular tuition rate applies. After the posted drop date, students may not change their registration from credit to audit, or from audit to credit, except by written recommendation from the appropriate division dean and approval by the Vice President for Instructional Services. Audit grades do not transfer and are not computed in the GPA. Courses taken by audit do not count toward enrollment status for financial aid or veterans' educational benefits and are not eligible for the COF stipend.

Grade Changes

A change of grade (other than from an Incomplete) is permitted only as a result of faculty/instructor or administrative error in calculating, posting, or recording a grade.

A student has one full year from the time in which the grade was issued to submit a written request for a grade reevaluation to the faculty member. The process is as follows:

Grade review with faculty/instructor. If no resolution is reached or satisfactory explanation given, then:

Review by department chair. If no resolution or satisfactory explanation, then:

Review by division dean or assistant dean. If no resolution is reached or satisfactory explanation given, then:

Review by the Vice President for Instructional Services or the appointed Assistant to the Vice President for final resolution.

An Incomplete (I) grade may be removed when the remaining class objectives are completed by the date indicated on the "Incomplete Course Agreement" form or no later than the end of the next full 15-week semester. The resulting change of grade is made by the instructor of record and is approved by the appropriate instructional division dean. Course work not completed within the allotted time will be assigned a Failing (F) grade. Students may not re-enroll in a class in which an incomplete grade is pending, since according to the College's definition of enrollment, they are still enrolled.

How to Calculate Your GPA

Grade Point Average (GPA) is calculated by dividing the total amount of grade points earned by the total amount of credit hours attempted. It may range from 0.0 to 4.0. Satisfactory/Unsatisfactory (S/U) grades are not factored in the student's GPA. Incompletes (I) or Withdrawals (W) do not receive grade points and do not have an effect on the GPA.

Repeated Courses

When a course is repeated, regardless of initial grade earned, the highest grade earned will be calculated in the GPA. However, all grades earned at PPCC will appear on the transcript. A course may be used only once to meet graduation requirements for any degree or program.

Academic Fresh Start

All course work taken at Pikes Peak Community College appears on a permanent transcript. Academic Fresh Start allows for a one-time exclusion of failed credits (grades of D, F, or U) from the

calculation of the grade point average. A maximum of 30 credits failed at PPCC may be removed from the GPA calculation. To be considered for a Fresh Start the following conditions need to be met:

- Two calendar years have elapsed since the student's last attendance at PPCC.
- During previous attendance at PPCC, the student earned 30 credit hours or less with a cumulative grade point average (CGPA) less than 2.00.
- Upon re-enrolling, student successfully completes a minimum of 6 credit hours with a term GPA of 2.00 or better.
- Applications for Academic Fresh Start must be submitted no later than the end of the semester following the successful return semester.

Students applying for a Fresh Start are responsible for investigating the potential impact of a Fresh Start on transfer admission, financial aid, VA, and other agencies and organizations.

Other institutions receiving a PPCC transcript for transfer of academic courses are not bound by this college policy and may choose to calculate the student's transfer GPA to include all grades, even those excluded by PPCC under this policy.

Once granted, an Academic Fresh Start is not reversible. Credit excluded from the GPA calculation cannot be used to satisfy the requirements for completion of a degree or certificate. Forms are available [on-line at https://erouting.pgcc.edu/forms/academic_fresh_start/](https://erouting.pgcc.edu/forms/academic_fresh_start/).

Students who are on Financial Aid will continue to have all hours that they have attempted, to include original grades earned, taken into consideration for Financial Aid Satisfactory Academic Progress as required by statutes and regulatory requirements.

Academic Progress Standing

Application

For students who have attempted fewer than 9 credit hours, the college will monitor satisfactory progress through an Academic Alert process. Academic Standing (AS) applies to all students who have attempted 9 or more credits in residence while attending a CCCS college. Academic Standing shall be applied consistently and uniformly within each CCCS institution. All colleges will determine AS following the posting of the majority of term grades for each semester. Students with deficient progress statuses will be notified of their status. Suspended students will not be allowed to begin enrollment in the subsequent semester. At the discretion of the CCCS College, AS status may be noted on the advising, official, or unofficial transcript. The AS of a student is specific to the home institution and does not transfer or impact a student's enrollment at other CCCS colleges.

Principle

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

Guideline

Recognizing the value of measuring academic progress for all students, the Colorado Community College System (CCCS) has established the following practice for measuring and notifying students of their Academic Standing (AS). The AS practice is intended to be informational and not punitive. CCCS colleges are encouraged to devise and implement appropriate Academic Alert strategies early in the term to assist students who are experiencing academic difficulties. A student's academic standing at one college does not impact academic standing at another CCCS college.

Definitions:

Only college level classes will be used to calculate term and cumulative GPA's. This includes summer term courses.

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

Cumulative Grade Point Average will be abbreviated as CGPA.

Term Grade Point Average will be abbreviated as TGPA.

Practice Standards:

Initial Standing

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

Academic Alert

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

Good Standing

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

Probation

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

Returning to Good Standing

By the conclusion of the Academic Probation term, the student must raise their CGPA to at least 2.0. If this condition is met, the student returns to Good Standing.

Probation (Continuing)

If a student on Academic Probation earns a TGPA of at least 2.00 for all classes attempted during the term, but fails to raise their CGPA to at least 2.0 for all classes attempted, the student will be allowed to attend the next term, but will remain on Academic Probation.

Suspension

In all instances where a student is placed on suspension the following apply.

- Dropping students already registered is at the discretion of the home college.
- Students may appeal based on standards and procedures developed by each college.
- Approval of the student's appeal may allow, but does not guarantee, that the student will be allowed to register without a break in enrollment. Students returning from a suspension will be on Probation (continuing).

Initial Suspension

CGPA < 2.00 for all classes completed in residence and most recent TGPA < 2.00. Student may not register for the next term following the suspension term.

- Student may register for the subsequent term after meeting with an academic advisor of the college.

Second Suspension

CGPA < 2.00 for all classes completed in residence and last TGPA < 2.00. Student may not register for the next two terms (fall, spring, or summer) following the suspension term.

- Student may register for the term following the two term break in enrollment after meeting with an academic advisor of the college.

Third Suspension

CGPA < 2.00 for all classes completed in residence and last TGPA < 2.00.

- Student is suspended from the college and may not register for two years or six consecutive semesters.

Academic Concerns

Any student who wishes to pursue an instructional concern or change of grade must exhaust the following options in sequence prior to petitioning the Vice President for Instructional Services. (Examples of instructional or course concerns deal with instructor behavior, class policies, and unfair expectations or demands.)

1. The student must meet with the instructor and attempt to resolve the problem. If no resolution:
2. The student must state the concern in writing and meet with the Department Chair (in the case of an adjunct instructor) or Dean / Associate Dean (in the case of a faculty member). Departments may require specific documentation. Please contact the appropriate division. If no resolution:
3. The student will meet with the Dean.

If the student contests the Dean's decision, he/she must submit the request in writing to the Office of the Assistant to the Vice President for Instructional Services. The request should include documentation of everything that the student wants considered in the decision. The Dean will also submit all written documentation and recommendations. The Vice President for Instructional Services or a designee will notify the student of the decision in writing. This decision will be final.

Term Academic Honors

PPCC provides an opportunity for students to be recognized with Academic Honors, on a term-by-term basis. Students who qualify will receive a notation for that term on their official transcripts.

Term Grade Point Averages required to qualify for these Term Academic Honors, are as follows:

- Dean's List: 3.50 – 3.749
- Vice President's List: 3.75 – 3.99
- President's List: 4.00

S/U grades and grades for Developmental Education coursework are not included in the Grade Point Average Calculation. Students must complete a minimum of 12 eligible credit hours in the term to be considered for Term Academic Honors.

Graduation Honors

Graduation honors recognize outstanding academic achievement throughout a student's academic career. The honors are awarded to students who complete the requirements for an associate degree and earn a 3.5 or better cumulative grade point average based on the end of the Fall term. Only college level courses completed will be included in the GPA calculation. A minimum number of 45 credits taken at PPCC is required to be eligible for graduation honors. The three levels of recognition are defined as follows and will be posted on the student's transcript.

	Cumulative GPA
Cum Laude (with honor)	3.50 to 3.749
Magna Cum Laude (with great honor)	3.75 to 3.99
Summa Cum Laude (with highest honor)	4.00

Application for Certificate or Degree

To receive a certificate or degree, students must file an application for graduation with the Enrollment Services Center.

Graduation Ceremony

Each May, PPCC produces a gala graduation ceremony to honor graduating students. To participate, you must be eligible for graduation and must submit an Application for Graduation online by the deadline. Potential graduates will receive an initial letter of information about graduation from the Student Life Office. Caps, gowns, tassels and instructions on the ceremony are all available through Student Life. If you are eligible, join us for this festive

celebration of your success! The 2015 ceremony will include eligible participants who graduated Summer 2014, Fall 2014 and anticipated graduates in Spring 2015.

Participation in the graduation ceremony does not imply that a degree has been awarded. All degree requirements must be met before a degree is awarded.

Assessment for Student Success

The assessment of student learning at Pikes Peak Community College is an ongoing, evolving process that involves the entire college community. The College Outcomes Assessment Team (COAT) is charged with developing and implementing an assessment plan to gather evidence about what students know and can do as a result of their respective courses of study. This evidence is then used to improve teaching, learning, and overall program quality, enabling the College to meet the needs of students and the community it serves. The assessment process, with its focus on student learning and success, reflects the vision and values of Pikes Peak Community College as stated in the Strategic Plan. Assessment activities are formally documented in an annual report, copies of which are available for review.

Assessment of student learning in the Associate degree programs involves identifying and measuring General Education Student Learning Outcomes across all content areas. The following outcomes were identified by faculty as instrumental to student success:

- Communication (Reading, Writing, Speaking, Listening)
- Community Skills
- Critical Thinking
- Information/Literacy
- Math Skills

Assessment of student learning in Career and Technical Education degree programs is conducted by individual programs. Each program identified outcomes based on the career objectives of its students. Successful learning outcomes assessment depends on the active participation of students. Among the roles that students can assume in assessment are:

- Participating in both direct and indirect assessment activities such as tests, portfolios, interviews, and surveys such as term course evaluation requests
- Helping to publicize assessment activities
- Participating in pilot studies
- Providing feedback and comments on activities

More information about the assessment of student learning, our results, and how we use the evidence can be found at www.pgcc.edu/academics/assessment/.

STUDENT CONDUCT

In This Section

Student Code of Conduct.....	18
Student Disciplinary Procedure	19
Student Grievance Procedure.....	22
Academic Honesty.....	23
Classroom Attendance Procedure.....	23
Conduct in College Buildings.....	23
Restricted Attendance	24
Drugs and Alcohol	24
Sexual Harassment	24
AIDS Policy.....	24
Firearms on Campus.....	24
Smoking on College Grounds	25
Parking and Traffic Regulations	25
Days of Enforcement.....	26
Emergencies and Crime Reporting.....	26
Emergency Notifications	26
Reporting Criminal Offenses.....	27
Rioting Offenses	27
Sex Offender Registration.....	27
Campus Crime and Security Report	27

Student Code of Conduct

In order to support a positive, safe, and productive learning environment for the entire College community, all students are expected to abide by the Pikes Peak Community College Student Code of Conduct. Conduct that violates student rights and freedoms and is subject to disciplinary action includes, but is not limited to:

1. Academic Misconduct

Plagiarizing, cheating, or committing any other form of academic misconduct including, but not limited to, unauthorized collaboration, falsification of information, and/or helping someone else violate reasonable standards for academic behavior. Students who engage in any type of academic dishonesty are subject to both academic consequences as determined by the instructor and to disciplinary action as outlined in the Pikes Peak Community College disciplinary procedures (Colorado Community College System President's Procedure SP4-30).

2. Disruptive Behavior

Engaging in any disruptive behavior that negatively affects or impedes teaching or learning (regardless of mode of delivery or class setting); or disrupts the general operation of the college.

3. Deceitful Acts

Engaging in deceitful acts, including, but not limited to: forgery, falsification, alteration, misrepresentation, non-disclosure, or misuse of documents, records, identification and/or educational materials.

4. Conduct that is Detrimental to College or to Safety

Conduct that is deemed detrimental, harmful and/or damaging to the college and/or that jeopardizes the safety of others as determined by the Pikes Peak Community College Dean of Students. Examples include, but are not limited to, slamming doors, throwing chairs, and/or defacing of college property.

5. Physical/Non-physical Abuse

- Physical abuse or conduct that threatens or endangers another person's health or safety.

- Non-physical abuse, threats, intimidation, coercion, influence, or any unwelcome conduct in any form that is sufficiently severe, pervasive or persistent that it alters the conditions of the learning environment or employment.
- Knowingly falsifying, publishing or distributing, in any form, material that tends to impeach the honesty, integrity, virtue or reputation of another person

6. Harassment and/or Discrimination

Discrimination or harassment on the basis of sex/gender, race, color, age, creed, national or ethnic origin, physical or mental disability, veteran status, pregnancy status, religion or sexual orientation.

7. Sexual Misconduct

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

8. Weapons

Possession or distribution of any unauthorized firearms, ammunition, explosives, fireworks and/or other dangerous weapons (or chemicals) or use/threat of use of any instrument as a weapon to intimidate, harass, or cause harm to others.

9. Narcotics/Alcohol

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

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

10. Dress Code

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

11. Leaving Children Unattended

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

12. Violation of Laws, Directives, and Signage

- Violating any municipal, county, state or federal law that adversely impacts the conditions of the educational or employment environment.
- Violations of college traffic and parking rules, regulations, or signage.
- Creating an intentional obstruction that unreasonably interferes with freedom of movement, either pedestrian or

vehicular. This includes, but is not limited to leading or inciting to disrupt college activities. Failure to comply with the lawful directives of College employees acting within the scope of their duties, including those directives issued by a College administrator to ensure the safety and well-being of others.

- Violations of college policies, protocols, or procedures.

13. Illegal Gambling

Participation in illegal gambling activities on college owned or college controlled property, and/or any function authorized or supervised by the college and/or in state owned or leased vehicles.

14. Unauthorized Entry and/or Unauthorized Possession

Entry into or use of any building, room, or other college-owned or college-controlled property, grounds, or activities without authorized approval. This also includes, but is not limited to the unauthorized possession, duplication or use of college keys, lock combinations, access codes, and access cards and/or credentials.

15. Unacceptable Use of College Equipment, Network or System

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

16. Unauthorized Pets/Animals

Possession of any unauthorized pet or animal, excluding trained service animals while on college-owned or college-controlled property.

17. Tampering with Student Organization, Election, or Vote

Tampering with the process of any college recognized student organization, election or vote.

18. Group or Organization Conduct

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

19. Abuse of the Student Disciplinary and/or Grievance Procedure

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

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

- Engaging in retaliatory acts in any form against any person or person(s) involved in the student disciplinary/grievance procedure

Please note: In most circumstances, Pikes Peak Community College will treat attempts to commit code of conduct violations as if those attempts have been completed.

At Pikes Peak Community College, administration of the disciplinary and grievance procedures is the responsibility of the Dean of Students.

Student Disciplinary Procedure

Reference

Board Policy (BP) 4-30; System President's Procedure (SP) 4-31a.

Application

The procedure applies to students within the Colorado Community College System (CCCS).

Basis

Students are expected to adhere to the Student Code of Conduct and policies and procedures of the College. If a student is charged with violating his/her College's Code, these are the procedures to be used in resolving the charge.

Definitions

Chief Student Services Officer (CSSO): The individual designated by the College President to administer student affairs and be responsible for administering the College's Student Code of Conduct and this procedure. The CSSO may delegate student discipline to another individual (designee).

Code of Conduct: A document developed and published by each college which defines prescribed conduct of students

Day: Refers to working day unless otherwise noted below.

Jurisdiction: applies to behaviors that take place on the campus, at System or College sponsored events and may also apply off-campus and to actions online when the Chief Student Services Officer (CSSO), or designee, determines that the off-campus conduct affects a substantial System or College interest. A substantial College interest is defined to include:

- Any action that constitutes criminal offense as defined by federal or Colorado law. This includes, but is not limited to, single or repeat violations of any local, state or federal law committed in the municipality where the System or the College is located;
- Any situation where it appears that the accused individual may present a danger or threat to the health or safety of self or others;
- Any situation that significantly impinges upon the rights, property or achievements of self or others or significantly breaches the peace and/or causes social disorder; and/or
- Any situation that is detrimental to the educational interests of System or the College.

Any online postings or other electronic communication by students, including cyber-bullying, cyber-stalking, cyber-harassment, etc. occurring completely outside of the System or the College's control (e.g., not on System or College networks), websites or between System or College email accounts) will only be subject to this procedure when those online behaviors can be shown to cause a substantial on-campus disruption. Otherwise, such communications are considered speech protected by the 1st Amendment to the Constitution.

Notice: Notices which are required to be given by this procedure shall be considered served upon the student when given by personal delivery, mailing by certified mail, or emailing the student to their official college email address requesting a delivery receipt

notification. If notice is mailed, student shall be given three (3) additional days to respond.

Sanctions: One or more of the following may be imposed when there is a finding that a student has violated the College's Code of Conduct.

1. Warning: A Notice served upon the student advising him/her that he/she is violating or has violated College regulations.
2. Probation: After a finding of violation of the Code of Conduct, restriction of student's privileges for a designated period of time including the probability of more severe disciplinary sanctions if the student is found to be violating any College regulations during the probationary period.
3. Other disciplinary sanction: fines, restitution, denial of privileges, assignment to perform services for the benefit of the College or community; re-assignment to another class section, including a potential on-line section, or other sanction that doesn't result in the student being denied the right of attending classes.
4. College suspension or expulsion: An involuntary separation of the student from the College for misconduct not based on academic performance for a specified period of time.
 - a. Suspension is a separation that shall not exceed three academic terms per suspension for any singular offense or situation. While a student is suspended, he or she is not eligible for admission or re-admission at any of the community colleges within the System. Additionally, if a student is suspended at any of the other Auraria Campus Institutions (i.e., Metropolitan State University of Denver (MSUD) or the University of Colorado Denver (UCD)), he or she will not be eligible for admission or re-admission at the Community College of Denver (CCD). Once the suspension is lifted at any of the community colleges within the System, the student may be eligible for admission or re-admission.

Examples of suspension include, but are not limited to the following: the College, a department or program, a class, residence hall, use of a College facility or an activity.

Students may be suspended from one class period by the responsible faculty member or adjunct instructor. Longer suspensions can only be implemented by the CSSO or designee in accordance with this procedure.
 - b. Expulsion is an indefinite separation from the college. The student is not eligible for admission or re-admission at any of the community colleges within the System. Additionally, if a student is expelled at MSUD or UCD, he or she will not be eligible for admission or re-admission at CCD.

In exceptional cases where a student wants to be considered for admission or re-admission after an expulsion has been implemented, the student bears the burden to prove the behavior that resulted in the expulsion has been resolved. It is within the College's discretion to admit or deny the student.
5. Interim Action: An immediate action taken by the CSSO to ensure the safety and well-being of members of the System or College community; preservation of System or College property; or if the student poses a definite threat of disruption or interference to others or the normal operations of the System or College. In the event of an interim action, the hearing before the CSSO or designee shall occur as soon as possible following the interim action. If the College issues a permanent sanction, the student shall be afforded appeal rights as discussed below. If the College does not implement a permanent sanction, the interim action will be removed from the student's record.

6. The college may issue a "Cease Communications" directive and/or a "No Trespass" directive, also referred to as a *persona non grata*.

Student: All persons taking courses at or sponsored by the College(s), both full-time and part-time, pursuing both undergraduate credit and non-credit courses and those concurrently attending secondary or post-secondary institutions and College. Persons who are not officially enrolled for a specific term, but who have a continuing relationship with the college are considered students.

Title IX Coordinator(s) and Title VI and VII Coordinator(s) (EO Coordinator) is the employee(s) designated by the college president to oversee all civil rights complaints.

Procedures

The CSSO or designee shall receive all allegations of student misconduct, investigate the complaints, which includes meeting with the student to give him/her the opportunity to respond to the allegations of misconduct. If the allegations of misconduct are discrimination and/or harassment based on federal or state civil rights laws, the College will investigate those incidents through the Civil Rights Grievance and Investigation Process, System President's Procedure (SP) 3-50b and 4-31a at <https://www.cccs.edu/about-cccs/state-board/policies-procedures/>.

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

The CSSO or designee may decide that the charges can be disposed of administratively by mutual consent of the parties involved on a basis acceptable to them. If an administrative resolution is not achieved, the CSSO or designee shall issue a decision which determines whether the alleged conduct occurred; whether the conduct violated the Code of Conduct or College procedures; and impose a sanction(s) if appropriate. The student shall receive written notice of the decision and be advised of his/her right to appeal the decision, subject to the grounds below, by filing a written appeal with the CSSO or designee within seven (7) days of service of the decision.

Appeal

In the event of an appeal, the CSSO or designee shall give written notice to the other party (e.g., if the accused student appeals, the appeal is shared with the complainant who may also wish to file a response), and then the CSSO or designee will draft a response memorandum (also shared with all parties). All appeals and responses are then forwarded to the appeals officer or committee for initial review to determine if the appeal meets the limited grounds and is timely. The original finding and sanction will stand if the appeal is not timely or substantively eligible, and the decision is final.

If the appeal has standing, the documentation is reviewed. Because the original finding and sanction are presumed to have been decided reasonably and appropriately, the party appealing the decision must specifically cite the error(s) in the original determination on which the appeal is based. The ONLY grounds for appeal are as follows:

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

If the appeals officer or committee determines that a material procedural or substantive error occurred, it may return the complaint to the CSSO or designee with instructions to reconvene to cure the error. In rare cases, where the procedural or substantive error cannot be cured by the CSSO or designee in cases of bias, the appeals officer or committee may order a new hearing be held by a different individual acting in the place of the designated CSSO or designee. The results of a reconvened hearing cannot be appealed. The results of a new hearing can be appealed, once, on the two applicable grounds for appeals.

If the appeals officer or committee determines that new evidence should be considered, it will return the complaint to the CSSO or designee to reconsider in light of the new evidence, only. If the subject matter pertains to civil rights violations pursuant to SP 4-31a, the appeals officer or committee will return the complaint to the Title IX/EO Coordinator to reconsider in light of the new evidence, only. The reconsideration of the CSSO, designee, or Title IX/EO Coordinator is not appealable.

The procedures governing the hearing of appeals include the following:

- All parties should be timely informed of the status of requests for appeal, the status of the appeal consideration, and the results of the appeal decision;
- If the appeals officer or committee determines there is new evidence or error in the original proceeding, every opportunity to return the appeal to the CSSO or designee for reconsideration (remand) should be pursued.
- Appeals are not intended to be full rehearings of the complaint (de novo). In most cases, appeals are confined to a review of the written documentation or record of the original hearing, and pertinent documentation regarding the grounds for appeal.
- An appeal is not an opportunity for an appeals officer or committee to substitute their judgment for that of the CSSO or designee merely because they disagree with its finding and/or sanctions.
- Appeals decisions are to be deferential to the original decision, making changes to the findings only where there is clear error and a compelling justification to do so.
- Sanctions imposed are implemented immediately unless the CSSO or designee stays their implementation in extraordinary circumstances, pending the outcome of the appeal.
- The appeals officer or committee will render a written decision on the appeal to all parties within seven (7) days from receiving the appeal request. The committee's decision to deny appeal requests is final.

Special Discipline Process Provisions

- In the event that the student is under the age of eighteen (18) or incapacitated, he or she may have an advisor present to assist him/her in presenting his/her case.
- The student may have the opportunity to be advised by a personal advisor of their choice, at their expense, at any stage of the process and to be accompanied by that advisor at any meeting or hearing; however, student cannot be represented by an attorney or law student (legal counsel) unless civil or criminal actions concerning the particular incident in question are pending. Under those limited exceptions, the legal counsel's role shall be advisory only.
- The student must notify the CSSO of the identity of the advisor at least two (2) days before the date of any scheduled meeting. If meetings are scheduled with less than two (2) day's notice, the student is expected to notify the CSSO as soon as possible.

- The student is responsible for presenting his/her own case and, therefore, advisors are not permitted to speak or to participate directly in any hearing except when the student is under the age of eighteen (18) or incapacitated.
- Student shall have the right to identify documents, witnesses and other material he/she would like the CSSO or designee to review before making a final decision.
- Any hearing held shall be conducted in private unless all parties agree otherwise.
- A record of the hearing should be maintained by the CSSO or designee.
- Audio and/or Video Recording- the college, at its discretion, may audio or video record any meeting throughout the process. Should a recording exist, the student may request a copy at the end of the process. No other audio or video recording will be allowed.
- If student has a disability and would like to request an accommodation to assist him/her through the discipline process they may do so by informing the CSSO or designee. The CSSO or designee will then work with disability support services to accommodate the request.
- Proceedings under this procedure may be carried out prior to, simultaneously with, or following civil or criminal proceedings off-campus.
- Standard of proof- the College will use the preponderance of evidence standard in the disciplinary proceedings, meaning, the College will determine whether it is more likely than not a conduct code was violated.
- All sanctions imposed by the original decision maker will be in effect during the appeal. A request may be made to the CSSO or designee for special consideration in exigent circumstances, but the presumptive stance of the college is that the sanctions will stand. Graduation, study abroad, internships/externships/clinical placements, etc. do not in and of themselves constitute exigent circumstances, and students may not be able to participate in those activities during their appeal. In cases where the appeal results in reinstatement to the college or of privileges, all reasonable attempts will be made to restore the student to their prior status, recognizing that some opportunities lost may be irretrievable in the short term.
- The procedural rights afforded to students above may be waived by the student.
- All timelines may be extended as agreed upon by both parties.

Retaliatory Acts

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

Revising this Procedure

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

Student Grievance Procedure

Reference

Board Policy 4-31; SP 4-31a

Application

The procedure applies to students within the Colorado Community College System (CCCS).

Basis

This Student Grievance Procedure is intended to allow students an opportunity to present an issue which they feel warrants action, including the right to secure educational benefits and services. If the basis of the claim is discrimination and/ or harassment based on federal or state civil rights laws, the student must file a grievance under the Civil Rights Grievance and Investigation Process. If the accused (respondent) is a student, please refer to SP 4-31a. If the respondent is a CCCS employee, please refer to SP 3-50a.

Definitions

Complainant(s) is a person who is subject to alleged inequity as it applies to Board Policies, System President's Procedures, or College Procedures. For purposes of this procedure, a complainant is student who was enrolled at the time of the alleged incident.

Respondent(s) is a person whose alleged conduct is the subject of a complaint. For purposes of this procedure, a respondent can be a CCCS employee(s), student(s) who was enrolled at the time of the alleged incident, authorized volunteer(s), guest(s), visitor(s), or college.

Grievance: A grievable offense is any alleged action which violates or inequitably applies State Board Policies, System President's Procedures, and College Procedures. The complainant must be personally affected by such violation or inequitable action.

Non-grievable matters: The following matters are not grievable under this procedure except as noted: matters over which the college is without authority to act; grades and other academic decisions unless there is an allegation that the decision was motivated by discrimination and/or harassment which should be filed under the appropriate Civil Rights Grievance and Investigation Process.

Chief Student Services Officer (CSSO): The college employee designated by the college president to administer student grievances. The CSSO may delegate the responsibility over student grievances to another person.

Notice: Notices which are required to be given by this procedure shall be considered served upon the student when given by personal delivery, mailing by certified mail, or email with receipt notification to the address the student has filed with the College's admissions and records office. If notice is mailed, student shall be given three (3) additional days to respond.

Day: Refers to calendar day unless otherwise noted below.

Remedy: The relief that the Grievant is requesting.

Filing a Complaint

All complaints shall be made as promptly as possible after the occurrence. A delay in reporting may be reasonable under some circumstances; however, an unreasonable delay in reporting is an appropriate consideration in evaluating the merits of a complaint or report.

Procedures

Students must timely submit all grievances in writing (See Appendix) to the CSSO. The grievance should clearly and concisely describe the alleged incident(s), when and where it occurred, and the desired remedy sought. The grievance should be signed by the initiator or, in the case of an email submission, sent as an email attachment, in letter format and should contain the name and all

contact information for the grievant. Any supporting documentation and evidence should be referenced within the body of the formal grievance. Additionally, the initiator of a formal grievance should submit any supporting materials in writing as quickly as is practicable.

The complainant's supporting documentation should clearly demonstrate all informal efforts, if any, to resolve the issue(s) with the person involved and the person's supervisor. This includes names, dates and times of attempted or actual contact along with a description of the discussion and the manner of communication made in the course of each effort. If contacting the person involved and/or the supervisor is impracticable, the complainant should state the reasons why.

The CCCS community benefits from informal and formal procedures that encourage prompt resolution of complaints and concerns students may have about the implementation of policies and procedures that govern the institution.

Informal Grievance Process

Complainant is encouraged to resolve the issue with the Respondent through the informal process. The CSSO shall facilitate the informal process. If the informal grievance process is unsuccessful, or if CCCS or the complainant chooses not to pursue the informal process, the CSSO will open a formal grievance case.

Formal Grievance Process

Complainant must timely file a written statement of the actions complained of and describes the remedy s/he is seeking with the CSSO. A matter could also be referred to this process by the College president or his/her designee. Once a written grievance is filed or referred, the CSSO or designee will determine whether or not the situation states a grievable offense. The matter will be closed if the situation is determined not grievable and the Complainant will be notified of the reasons.

If the matter is determined to be grievable, the CSSO will request a meeting (hearing) with both the complainant and respondent. Both parties will be given the opportunity to discuss the allegations of the grievance and may offer any documentation, witnesses, or other materials in support of the complaint. During this hearing, neither party may have a representative, including attorneys or law students. These procedures are entirely administrative in nature and are not considered legal proceedings.

No audio or video recording of any kind other than as required by institutional procedure is permitted.

The CSSO may also contact or request a meeting with relevant college staff, students, or others as part of the investigation.

At the CSSO's discretion, the CSSO may discontinue meetings with anyone that is causing a disruption to the process or is being uncooperative, and will proceed to make a determination based on the information known at that time.

Based on the preponderance of evidence, the CSSO shall issue a decision, in writing, to both the complainant and respondent. The decision shall reject or grant the grievance and make recommendation(s) to resolve the issue(s). The complainant and respondent shall be advised of his/her right to appeal the decision, subject to the grounds below, by filing a written appeal with the CSSO within seven (7) days of service of the Decision.

In the event of an appeal, the CSSO shall give written notice to the other party to allow him/her the opportunity to submit a response in writing. The CSSO will also draft a response memorandum (also shared with all parties). All appeals and responses are then forwarded to the appeals officer or committee for initial review to determine if the appeal meets the limited grounds and is timely. The original finding will stand if the appeal is not timely or substantively eligible, and the decision is final. If the appeal has standing, the documentation is forwarded for consideration. The party requesting appeal must show error as the original finding is

presumed to have been decided reasonably and appropriately. The ONLY grounds for appeal are as follows:

1. A procedural or substantive error occurred that significantly impacted the outcome of the hearing (e.g. substantiated bias, material deviation from established procedures); or
2. To consider new evidence, unavailable during the original hearing or investigation, that could substantially impact the original finding. A summary of this new evidence and its potential impact must be included in the written appeal.

If the appeals officer or committee determines that new evidence should be considered, it will return the complaint to the CSSO to reconsider in light of the new evidence, only.

If the appeals officer or committee determines that a material procedural or substantive error occurred, it may return the complaint to the CSSO with instructions to reconvene the hearing to cure the error. In rare cases, where the procedural or substantive error cannot be cured by the CSSO in cases of bias, the appeals officer or committee may order a new hearing be held by a different individual acting in the place of the designated CSSO. The results of a reconvened hearing cannot be appealed. The results of a new hearing can be appealed, once, on the two applicable grounds for appeals.

Special Grievance Process Provisions

- In the event that the student is under the age of eighteen or incapacitated, s/he may have an advisor present to assist him/her in presenting his/her case.
- Students do not have the right to be represented by an attorney or law student during these proceedings except in the case where civil or criminal actions concerning the student are pending and in that case the attorney's role shall be advisory only.
- The student is responsible for presenting his/her own case and, therefore, advisors are not permitted to speak or to participate directly in any hearing except when the student is under the age of eighteen or incapacitated.
- Student shall have the right to identify documents, witnesses and other material he/she would like the CSSO to review before making a final decision.
- Any hearing held shall be conducted in private unless all parties agree otherwise.
- A record of the hearing should be maintained by the CSSO.
- If student has a disability and would like to request an accommodation to assist him/her through the grievance process they may do so by informing the CSSO. The CSSO will then work with disability support services to accommodate the request.
- If the grievance is against the CSSO, the Chief Academic Officer or other person designated by the president shall perform the duties of the CSSO.
- Jurisdiction-College grievance proceedings may be instituted over incidences that occur or are related to College or college-sanctioned activities or was of such a nature to impact upon the college.
- Proceedings under this procedure may be carried out prior to, simultaneously with, or following civil or criminal proceedings off-campus.
- Standard of proof-the college will use the preponderance of evidence standard in the grievance proceedings, meaning, the college will determine whether it is more likely than not the complainant was subjected to inequity as it applies to Board Policies, System President's Procedures, or College procedures.
- The procedural rights afforded to students above may be waived by the student.

Retaliatory Acts

It is a violation of the grievance procedure to engage in retaliatory acts against any employee or student who files a grievance or any employee or student who testifies, assists or participates in the grievance proceeding, investigation or hearing relating to such grievance.

Revising this Procedure

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

For information about the student grievance process, contact the Dean of Students office, 719-502-2367.

Academic Honesty

Students are expected to conduct themselves according to the highest standards of honesty in the classroom, shop, or laboratory. Failure to do so is grounds for disciplinary action, including suspension or expulsion from Pikes Peak Community College.

Academic honesty is a fundamental value of higher education. It means that you respect the right of other individuals to express their views and that you do not plagiarize, cheat, falsify, or illegally access College records or academic work. You are expected to read, understand and follow the *Student Code of Conduct*.

Academic dishonesty is defined as the unauthorized use of assistance with intent to deceive a faculty member or another person assigned to evaluate work submitted to meet course and program requirements. Examples of academic dishonesty include but are not limited to the following:

- the submission, in whole or part, of material prepared by another person and represented as one's own
- plagiarism, which is defined as the act of taking the writings, ideas, etc., of another person and passing them off as one's own
- the unauthorized use of notes, books, or other materials; the deliberate, unacknowledged reference to the work of another student; or the soliciting of assistance from another person during an examination
- illegitimate possession and/or distribution of test materials or answer keys
- unauthorized alteration, forgery, or falsification of official academic records

Classroom Attendance Procedure

Individuals not enrolled in a class are not permitted to sit in the classroom while the class is in session. Faculty members are encouraged to take attendance and anyone not on the class list will be asked to leave the classroom. The only exception to this procedure is for specially trained interpreters necessary for disabled students.

Conduct in College Buildings

By Colorado Executive Order, smoking tobacco products is not permitted in any College facility. Smoking tobacco products includes the use of cigars, cigarettes and electronic smoking devices (i.e. e-cigarettes).

Eating or drinking is not permitted in classrooms, laboratories, shops, the theatre, and the gymnasium, except when permission is granted by the person immediately responsible for supervision of the affected area.

Animals, except when needed for instruction or by disabled persons, are not allowed in any College building. Animals on the College grounds must be on a leash.

Leaving children unattended or unsupervised in campus buildings or on campus grounds can constitute child abuse or child neglect

(as outlined in the Colorado Child Protection Act of 1975). Children are not permitted in classrooms during class meeting times.

The College may require students to pay replacement or repair costs for College equipment lost, broken, or damaged through carelessness, negligence, or misconduct.

Restricted Attendance

Faculty may suspend students from one class period if their conduct is obstructive, disruptive, or unacceptable in an instructional setting. Students may return to class after the faculty member has identified the conditions to allow continued attendance. If students return and these conditions are violated, the appropriate dean will review the circumstances and provide information to the Dean of Students. This information shall state the appropriate administrative action, which may include continued attendance or permanent dismissal from the class as outlined in the Student Disciplinary Procedure.

Drugs and Alcohol

In compliance with the Drug-Free Schools and Communities Act Amendments of 1989 (Public Law 101-226), students shall not engage in the unauthorized or unlawful manufacture, distribution, dispensation, possession, use/abuse of alcohol and/or illicit drugs on college property or as part of any college activity.

Any student who is convicted of the unlawful manufacture, distribution, dispensation, possession, use, or abuse of illicit drugs or alcohol is subject to criminal penalties under local, state, or federal law. These penalties range in severity from a fine of \$100 up to \$8,000,000 and/or life imprisonment. The exact penalty assessed depends upon the nature and severity of the individual offense.

The College will impose penalties against students who violate the Drug-Free Schools and Communities Act Amendments of 1989 (Public Law 101-226). Violators will be subject to disciplinary action under student disciplinary policies. The sanctions include but are not limited to probation, suspension, or expulsion from the College and referral to authorities for prosecution, as appropriate.

For further information, contact the Human Resource Services Office or the Campus Life Office at the Centennial Campus.

Sexual Harassment

Pikes Peak Community College is firmly committed to maintaining a work and learning environment where students, faculty, and staff are treated with dignity and respect. Sexual harassment and acts of discrimination are illegal, often demeaning for the individual student or employee, and can disrupt the College's positive learning and working environment. As such, all members of the College community have a responsibility to be aware of what behaviors constitute sexual harassment, to be responsible for their own actions, and to help create an environment free of sexual harassment.

Pikes Peak Community College defines sexual harassment as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when one or more of the following criteria are met:

- Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or of academic status in a course, program, or activity.
- Submission to or rejection of such conduct by an individual is used as a basis for employment or academic educational decisions affecting such individual.
- Such conduct is sufficiently severe, persistent, or pervasive so as to have the purpose or effect of unreasonably interfering with an individual's work and/or academic educational performance or creating an intimidating, hostile, or offensive work and/or learning environment.

Furthermore, retaliation against any person for filing a complaint, participating in, or cooperating in an investigation is prohibited.

If you believe that you have been sexually harassed or that you have been retaliated against by anyone in your work and/or academic activities at Pikes Peak Community College, you should report this conduct immediately so that an inquiry into your complaint may commence without delay. You may report this conduct to an officer of the College, instructional dean, division/department director, or a Human Resource Services representative. Substantiated complaints may result in disciplinary action up to and including expulsion from the College.

The College has designated the Executive Director of Human Resource Services as its Equal Opportunity Education/Employment Compliance Officer. Inquiries and/or complaints may be referred to the Human Resource Services office by e-mail, hrs@ppcc.edu, or by calling 719-502-2600. The EEO Compliance Officer or designate will investigate all credible allegations of sexual harassment in a timely manner and in accordance with its official complaint investigation procedure.

Complaints may also be referred to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Boulevard, Cesar E. Chavez Memorial Bldg., Suite 310, Denver, Colorado 80204, 303-844-5695.

AIDS Policy

Current knowledge indicates that individuals with Acquired Immunodeficiency Syndrome (AIDS), AIDS Related Complex (ARC), or a positive test for antibody to the Human T-Lymphotropic Virus Type III (HTLV-III/HIV) do not pose a health risk to others in a non-laboratory academic setting. According to current medical data, the virus is not transmitted by casual contact. Based on this knowledge, individuals sharing common work or study areas, libraries, classrooms, recreational facilities, cafeterias, and theaters do not present a problem or public health threat to the College community. Laboratories and/or programs dealing with body fluids will teach and practice universal precautionary procedures.

Students or employees of Pikes Peak Community College who are or may become infected with the AIDS virus will not be excluded from enrollment or employment or restricted in their access to College services or facilities unless medically-based judgments indicate restriction is necessary for the welfare of the individual or other members of the College community. There will be no mandatory screening of prospective or current students or employees for the AIDS virus; harassment or discrimination against people infected with the AIDS virus will not be tolerated. Further, the strictest principles of confidentiality will be maintained in management of personal medical information, as provided by law.

Currently, there is no cure for AIDS. Prevention of the disease through education is crucial. The College is committed to ongoing awareness efforts through its curriculum, student and staff activities, and community events.

Firearms on Campus

State Board Policy states that no person may have on his or her person any unauthorized firearm, ammunition, explosive device, or illegal weapon on campus or any facility used by a college. Persons authorized to carry firearms and other equipment defined in the policy are:

- those persons conducting and participating in an approved program of instruction in the college's curriculum which requires access to such equipment as an integral part of the instructional program;
- certified peace officers;

- those persons who have been issued a valid permit to carry a concealed handgun in accordance with Colorado's Concealed Carry Act, C.R.S. § 18-12-201, et seq. and who are acting in compliance with the requirements of that Act; and
- those persons granted permission at the discretion of the college president for specific purposes from time to time.

Concealed Handgun Permit holders exercising their rights pursuant to Item #3 above are responsible for preventing the casual or inadvertent display of their handgun.

It shall not be an offense if the weapon remains inside a locked motor vehicle upon the real estate owned by the State Board for Community Colleges and Occupational Education.

In accordance with Colorado Statute CRS 18-12-214(3), under no circumstances may a person other than a certified peace officer carry a firearm or other equipment defined in Board Policy onto the real property, or into any improvements erected thereon, of a public elementary, middle, junior high, or high school. This provision applies to The Classical Academy (TCA) facility, which is located on PPCC's Rampart Range Campus and owned by School District 20.

In accordance with Colorado Statute CRS 18-12-214(3)(a), a concealed weapon permittee may have a handgun on the real property of the public school so long as the handgun remains in his or her vehicle and, if the permittee is not in the vehicle, the handgun is in a compartment within the vehicle and the vehicle is locked.

Violations of the college firearms policy may result in criminal prosecution. Questions should be directed to the Department of Public Safety.

Smoking on College Grounds

Pikes Peak Community College campuses must be open and accessible to the general public in order to fulfill the role and mission of the College. In order to promote a healthy environment for the College community, and to comply with Colorado Governor's Executive Order D0036 90, smoking is prohibited in all PPCC buildings and facilities.

"Smoking," as used in this policy, includes, but is not limited to:

- Smoking tobacco products such as cigars, cigarettes and pipes;
- Cloves, bidis, kreteks and other herbal cigarettes;
- Electronic smoking devices (e-cigarettes or vapor cigarettes);
- Marijuana, marijuana products and hashish; and
- Illegal drugs (e.g. cocaine, heroin, opium, methamphetamine).

Smoking of tobacco products and the use of electronic smoking devices is allowed only in designated smoking areas at the Centennial, Rampart Range, and the Downtown Studio campuses.

High school students (AVP and CE), regardless of age, who attend the College are prohibited from smoking while on PPCC property.

Military sites will comply with all rules and regulations for those installations.

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

Designated Smoking Areas

Smoking is permitted in designated smoking areas only at Centennial, Rampart Range, and the Downtown Studio Campuses.

Smoking is not permitted in any campus courtyard, at the Centennial Campus bus stop, or while walking to and from parking lots, bus stops, and buildings at all campuses.

Smoking materials must be discarded in designated receptacles.

Violations of College smoking policies may result in a citation and/or fine, as well as student or employee disciplinary action.

Centennial Campus Designated Smoking Areas

- On the service drive, southwest corner
- On the service drive, southeast corner
- At the northwest entrance off of A lot

Rampart Campus Designated Smoking Area

- Northeast corner at the old bus stop

Downtown Studio Campus Designated Smoking Area

- West side near the ramp exit/entrance

Parking and Traffic Regulations

The Pikes Peak Community College Centennial Campus and Rampart Range Campus will provide OPEN parking in all general lots, supported by a student fee paid at registration. These include C, D, and E lots at Centennial and lots one through five at Rampart Range. At Centennial Campus only, motorcycles may be parked in the designated marked areas in lots D and E. At Rampart Range Campus, motorcycles may park in the designated area in lot 2.

Those wishing to obtain a "hang tag" must do so by bringing student/staff identification to the Campus Public Safety office at the Centennial and Rampart Range Campuses. Those wishing to obtain a "hang tag" at the Downtown Studio Campus (DTSC) must bring student/staff identification to the Student Life Office at the DTSC. It provides the following benefits:

- Easy notification in case of an emergency involving the vehicle.
- The hang tag is valid for the student's entire career at PPCC.

Speed limits on campus are 25 M.P.H. on perimeter road and Rampart road unless otherwise posted, and they are 10 M.P.H. in the parking lots. Pedestrians always have the right of way. For the safety of all, DO NOT park in service drives, crosswalks, or roadways. Violators may be ticketed.

Enforcement Authority: By Colorado Revised Statutes 23-5-107. Authority of Governing Boards, Parking.

Handicap Parking: Vehicles bearing state issued handicapped placards, state issued handicapped license plates, or state issued temporary handicapped passes may park in the handicapped areas in lots A, the designated all handicap lot, and on South Service Drive at the Centennial Campus and in the handicapped areas in lots one, two and three at the Rampart Range Campus. Only vehicles identified as belonging to handicapped persons displaying the state issued handicapped placards/license plates may park in the handicapped areas.

At the Centennial Campus only: Visitor Parking: A-Lot Visitor Parking for those on short-term business with the College. These visitor parking spots are for the convenience of College visitors and not for use by students, faculty, or staff. Those who park at the one hour visitor parking spots can receive a ticket if they are parked there for more than one hour. Visitors whose business will take longer than the visitor parking allow should use the parking spaces in C, D, and E lots.

Traffic Violations: The Department of Public Safety (DPS) will issue citations which may include fines and/or vehicle impoundment for both parking and moving violations occurring on College property. Summons and Penalty Assessments must be answered in El Paso County Court. College Citations for parking violations will result in a fine which must be paid to the College cashier in A-101 at

Centennial Campus or S-102 at Rampart Range Campus, 8 a.m. to 5 p.m., Monday–Thursday and 8 a.m. to 3 p.m. on Friday.

The registered owner of the vehicle or identified user of the vehicle shall be held liable for all violations.

Appeals: If a person wants to appeal a parking citation, he/she must submit a statement in writing before the tenth working day from the date of the citation. Appeal forms are available in room A-100 at Centennial Campus and N-106 at Rampart Range Campus. The Director of Public Safety reviews the appeals and mails them back to the appropriate person.

Mopeds and Bicycles: Service decals are not required for bicycles or mopeds. Parking for these vehicles is available at the Centennial Campus outside the main entrance to A-building, by A-121, and at Rampart Range Campus outside the main entrance. Bicycles or mopeds locked or parked in hazardous locations will have the lock or chain cut, and the vehicle will be impounded by Department of Public Safety for safekeeping.

Accidents: Colorado law requires that all accidents be reported to the proper authorities. Accidents occurring on PPCC Campuses must be reported to the Department of Public Safety at 719-502-2911.

Information concerning PPCC vehicle regulations may be obtained from Department of Public Safety in A-100, or by calling ext. 2900 at the Centennial Campus and in N-106 at the Rampart Range Campus.

Safety Escort Service: Safety Escort Service is available through the Department of Public Safety, contact 719-502-2911.

Days of Enforcement

Parking and traffic regulations are enforced on all College properties. Visitor One-Hour Parking in A-Lot at the Centennial Campus is enforced Monday through Friday; 8 a.m. to 8 p.m. Handicapped parking violations are enforced at all times.

Emergencies and Crime Reporting

For emergencies dial 911.

The emergency number 911 should only be used in emergency situations when a police officer, fire fighter, or paramedic is needed right away. If you are ever in doubt, call 911. 911 should not be used for non-emergencies.

All emergencies and suspected criminal actions must be promptly reported to the Department of Public Safety. Public Safety officials will take whatever action is deemed necessary to protect life and property and to enforce all Federal and State laws and regulations.

The Department of Public Safety monitors and records all known criminal activities associated with the College, including criminal activity associated with off-campus student organizations.

The Crime Prevention section of the Department of Public Safety offers programs to the campus community. Operation Identification and 911 Readiness are offered for children at the Child Development Centers. Operation Identification kits may be picked up at any Public Safety office.

The Colorado State Legislature has granted authority to commissioned officers of the Department of Public Safety to enforce all laws and regulations. Officers work in cooperation with State and local law enforcement agencies.

Emergency Notifications

Each campus uses various forms of communication as indicated below. Recognizing the high number of part time employees, adjunct instructors and turnover among students in our college community, emergency communication will be in plain language rather than code. Each classroom, office, or work area is equipped with a "flip chart" style Emergency Response Guide (ERG), which lists the most common types of emergencies alphabetically and

provides clear, bulleted and step-by-step guidance on what specific actions to take during any one particular emergency.

Centennial Campus:

All PPCC campuses, staff, students and faculty, are served by the Connect –Ed emergency mass notification system. Persons are invited to sign up, at no cost, through the college web site at www.ppcc.edu/alert. The Mass Emergency Notification system allows the college to send emergency messages to its entire community via e-mail, text (SMS), and / or voice mail to users' cell and / home phones. Users, however, must subscribe and "opt in" to the service. Standard text messaging costs may apply. Connect Ed messages are broadcast at the direction of any member of the Policy Group or Director of Public Safety or any of their respective representatives. Connect – Ed messages are published and distributed by the ITSS Director or his representative.

Centennial Campus alarm system is also equipped with a public announcement system (PA) for Aspen, Breckenridge, Student Center and Faculty Offices Buildings. This system will be used to announce any event or emergency.

The Centennial Campus is also equipped with multiple strategically placed LCD television screens capable of broadcasting both "screen shot" and scrolling messages. When necessary and appropriate, the ITSS Director or his representative will update the messages to inform the college community of emergency situations.

Emergency messages will be communicated to the Child Development Center (CDC) by a Public Safety employee speaking with the Director or Manager of the CDC.

Emergency messages will be communicated to the Police Training Center /Firing Range (CDC) by a Public Safety employee speaking with on-duty personnel at the Center / Range.

Emergency messages will be communicated to the Grounds Shop by a Public Safety employee speaking with on-duty personnel at the Shop.

Rampart Range Campus:

All PPCC campuses, staff, students and faculty, are served by the Connect –Ed emergency mass notification system. Persons are invited to sign up, at no cost, through the college web site at www.ppcc.edu/alert. The Mass Emergency Notification system allows the college to send emergency messages to its entire community via e-mail, text (SMS), and / or voice mail to users' cell and / home phones. Users, however, must subscribe and "opt in" to the service. Standard text messaging costs may apply. Connect Ed messages are broadcast at the direction of any member of the Policy Group or Director of Public Safety or any of their respective representatives. Connect – Ed messages are published and distributed by the ITSS Director or his representative.

The Rampart Range Campus alarm system is also equipped with a public announcement system (PA) for the Main Building. This system will be used to announce any event or emergency.

The Rampart Range Campus is also equipped with multiple strategically placed LCD television screens capable of broadcasting both "screen shot" and scrolling messages. When necessary and appropriate, the ITSS Director or his representative will update the messages to inform the college community of emergency situations.

Emergency messages will be communicated to the Child Development Center (CDC) by a Public Safety employee speaking with the Director or Manager of the CDC.

Emergency messages will be communicated to The Classical Academy (TCA) by a Public Safety employee speaking with on-duty personnel there.

Specific rooms and/or wings of the campus will be notified by designated college personnel, when reasonable to do so, going room to room to advise of the emergency.

The Downtown Studio Campus:

All PPCC campuses, staff, students and faculty, are served by the Connect –Ed emergency mass notification system. Persons are invited to sign up, at no cost, through the college web site at www.ppcc.edu/alert. The Mass Emergency Notification system allows the college to send emergency messages to its entire community via e-mail, text (SMS), and / or voice mail to users' cell and / home phones. Users, however, must subscribe and "opt in" to the service. Standard text messaging costs may apply. Connect Ed messages are broadcast at the direction of any member of the Policy Group or Director of Public Safety or any of their respective representatives. Connect – Ed messages are published and distributed by the ITSS Director or his representative.

The Downtown Studio Campus is also equipped with one LCD television screen mounted in the Student Lounge capable of broadcasting both "screen shot" and scrolling messages. When necessary and appropriate, the ITSS Director or his representative will update the messages to inform the college community of emergency situations.

Specific rooms and/or wings of the campus will be notified by designated college personnel, when reasonable to do so, going room to room to advise of the emergency

Reporting Criminal Offenses

To report any emergency, dial 911 or pick-up any Emergency phone located through-out campus buildings and parking lots.

Violent crimes considered a threat to students and employees are promptly reported to the campus community.

Rioting Offenses

Prohibition against enrollment in state-supported institutions of higher education of persons convicted of rioting offenses:

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

Sex Offender Registration

In accordance with the Campus Sex Crimes Prevention Act, the Public Safety Office shall maintain a list of all sex offenders who are currently enrolled or employed at Pikes Peak Community College and make said list available to students and employees. As of October 27, 2002, all convicted sex offenders are obligated to notify the state when the offender enrolls at, is employed at, or carries on a vocation at an institution of higher education. Said offender must notify the state of any change in enrollment or employment.

Lists of sex offenders registered at the College are maintained online at www.ppcc.edu/about-ppcc/public-safety/sex-offenders-1.

Campus Crime and Security Report

The Crime Awareness and Campus Security Act, a public law, requires the College to disclose information regarding criminal activities and security at Pikes Peak Community College and/or on adjacent public properties.

Report of Criminal Offenses

Centennial Campus	2011	2012	2013
Offense (Includes attempts)			
Murder & Non-negligent Manslaughter	0	0	0
Negligent Manslaughter	0	0	0
Forcible Sex Offenses	2	0	0
Non-forcible Sex Offenses	0	0	0
Robbery	1	0	0
Aggravated Assault	0	0	0
Burglary	3	5	5
Motor Vehicle Theft	0	0	1
Dating Violence	0	0	0
Domestic Violence	0	0	2
Stalking	0	0	4
Arson	1	0	0
Larceny	0	0	5
Failure to Appear Warrant Arrests	0	0	2
Arrests Made			
Liquor Law Violations	3	1	0
Drug Violations	2	3	2
Weapons Violations	0	3	0
No crimes were determined to be hate related.			

Downtown Studio Campus	2011	2012	2013
Offense (Includes attempts)			
Murder & Non-negligent Manslaughter	0	0	0
Negligent Manslaughter	0	0	0
Forcible Sex Offenses	0	0	0
Non-forcible Sex Offenses	0	0	0
Robbery	0	0	0
Aggravated Assault	1	0	0
Burglary	2	2	0
Motor Vehicle Theft	1	0	0
Dating Violence	0	0	0
Domestic Violence	0	0	0
Stalking	0	0	0
Arson	0	0	0
Larceny	0	0	7
Failure to Appear Warrant Arrests	0	0	5
Arrests Made			
Liquor Law Violations	0	0	0
Drug Violations	0	2	0
Weapons Violations	0	1	0
No crimes were determined to be hate related.			

Rampart Range Campus	2011	2012	2013
Offense (Includes attempts)			
Murder & Non-negligent Manslaughter	0	0	0
Negligent Manslaughter	0	0	0
Forcible Sex Offenses	0	0	0
Non-forcible Sex Offenses	0	0	0
Robbery	0	0	0
Aggravated Assault	0	0	0
Burglary	0	0	1
Motor Vehicle Theft	0	0	0
Dating Violence	0	0	0
Domestic Violence	0	0	0
Stalking	0	0	3
Arson	0	0	0
Larceny	0	0	0
Failure to Appear Warrant Arrests	0	0	1
Arrests Made			
Liquor Law Violations	0	0	0
Drug Violations	0	0	0
Weapons Violations	1	0	0
No crimes were determined to be hate related.			

Falcon Campus

Offense (Includes attempts)	2011	2012	2013
Murder & Non-negligent Manslaughter	0	0	0
Negligent Manslaughter	0	0	0
Forcible Sex Offenses	0	0	1
Non-forcible Sex Offenses	0	0	0
Robbery	0	0	0
Aggravated Assault	0	0	0
Burglary	0	0	0
Motor Vehicle Theft	0	0	0
Dating Violence	0	0	0
Domestic Violence	0	0	0
Stalking	0	0	0
Arson	0	0	0
Larceny	0	0	0
Failure to Appear Warrant Arrests	0	0	0
Arrests Made			
Liquor Law Violations	0	1	0
Drug Violations	0	1	0
Weapons Violations	0	0	0

No crimes were determined to be hate related.

SERVICES FOR STUDENTS

In This Section

Career Planning and Advising Center	29
Child Development Centers	29
Copy Center.....	29
Department of Public Safety	29
Disability Services, Student (OASIS)	30
Information Technology Support Services.....	30
Computer Labs.....	31
Learning Assistance Centers.....	31
Library.....	31
Math Centers	31
New Student Orientation (NSO)	31
Ombudsman	32
Records	32
Retention Services.....	32
Southern Colorado Educational Opportunity Center (SCEOC)	32
Student Counseling and Resource Center	32
Testing Center.....	33
TRIO-Disabled Student Support Services	33
TRIO-Student Support Services.....	33
Military & Veterans Programs	33
Veterans Upward Bound.....	33
Visitation Program (Four-year Colleges & Universities).....	34
Writing Centers	34

Career Planning and Advising Center

Centennial • A-119 • 502-3232

Downtown Studio • DO-S102 • 502-3232

Rampart Range • S-101 • 502-3232

The Career Planning and Advising Centers guide students as they answer the fundamental question, "Why are you here?" Career Planning assists students with clarifying their career goals, choosing the PPCC educational program that best fits their needs, and mapping their path for the chosen course of study. Once the course of study is selected, students are helped to choose the appropriate classes that will meet their goals. First semester advising is done in the Career Planning and Advising Centers; advising for continuing students is done by the student's assigned faculty advisor (with services provided by Career Planning and Advising if the faculty advisor is not available). The following services are provided at the Centers:

Career Planning

- Career counseling (individual and group) to help with decision-making, goal setting and choosing a college major
- Focus2 Career Guidance and Information System, a computer-based system designed to assist you through your career-decision-making process. There is no charge for this service, which is available on all campuses.
- Career maps for all Pikes Peak Community College program areas

Advising

- Explanation of basic skills (placement test) results, and assistance in selecting classes to resolve any academic deficiencies
- Help in choosing and registering for classes for the first semester enrollment
- Information on course sequence and prerequisites
- Help in adding or dropping classes

- Assignment of a faculty advisor for guidance in future semesters
- Assistance with changing a course of study or faculty advisor
- Advising on classes when faculty advisor is not available

Employment Services

- Individual and group training for job-seeking skills, including resume writing and interviewing
- Information on the local labor market and planning a job search
- Career Connection online employment services system (available for current PPCC students and graduates)
- Internet access to job banks

Child Development Centers

Centennial • 502-2323

Rampart Range • 502-2424

www.ppcc.edu/cdc

The Child Development Centers located at the Centennial and the Rampart Range Campuses offer comprehensive educational child care services for children age six weeks to five years in infant, toddler, and preschool programs. Children participate in art activities, science, math, music, creative play, language arts, and outdoor play. Hours of operation are Monday – Friday from 7:15 a.m. to 5:30 p.m.

The CDC's are licensed by the Colorado Department of Human Services, a Quality Level 4 rating from Colorado Shines and are accredited by the National Association for the Education of Young Children. The Centers are staffed by certified early childhood teachers who are assisted by student staff teacher aides. The Centers serve as a practicum site for students enrolled in the Early Childhood Education Program and the Area Vocational Program.

Children of Pikes Peak Community College students, staff, and faculty are eligible to enroll. Cost of child care is on an income-based sliding scale; other financial assistance may be available. Community families are welcome to enroll on a space available basis and are not eligible for the sliding scale. Advance registration is required for all programs. Some classrooms may have a waiting list. The waiting list form can be completed online at www.ppcc.edu/cdc.

Copy Center

Centennial • C-101 • 502-2111

Services are available to students, faculty, and staff for both personal and work-related jobs. The Copy Center is open Monday through Friday, 7:30 a.m. to 5:00 p.m. and offers black and white copies and transparencies; color printing; color banners and posters; design, layout, and production services; folding, binding, padding, and hole punching.

Department of Public Safety

Centennial • A-100 • 502-2911

Downtown Studio • DO-S101 • 502-2911

Rampart Range • N-106 • 502-2911

The Department of Public Safety is located at all campuses. The officers at all campuses can be reached via telephone at 719-502-2911. **Emergency calls should be directed to 719-502-2911.** The Department of Public Safety is staffed by 17 state certified peace officers. All PPCC Campus Police officers are commissioned State

peace/police officers. They have full police authority and function the same as any other law enforcement agency in the State of Colorado and on College property.

Disability Services, Student (OASIS)

Centennial • A-115 • 502-3333

Downtown Studio • DO-S126 • 502-3333

Rampart Range • S-101 • 502-3333

Student Disability Services, also known as the Office of Accommodative Services and Instructional Support (OASIS) strives to create an accessible environment by providing reasonable and appropriate services and accommodations for students with disabilities. The College is committed to providing quality educational support for the diverse needs of its students.

Support services and accommodations may include:

- Computer Assistive Technology
- alternative testing arrangements
- advocacy training
- identification of strengths and weaknesses
- instruction in learning strategies
- note taking (primarily student volunteers)
- readers/scribes for accommodative testing only
- text in alternate formats
- interpreting services (Sign Language)

OASIS is available to the PPCC community – students, faculty, and staff – for consultation and collaboration on disability issues.

It is the responsibility of students requesting an accommodation due to a qualifying disability to self-identify by registering with OASIS, to apply for supportive services, and to furnish documentation, if requested, about the nature and extent of their disability. This information is kept confidential and will be used to plan for appropriate services and accommodations. Students must meet with their disability specialist **prior to the beginning of each semester** to discuss arrangements for needed timely accommodations. The College is not obligated to provide or continue to provide non-OASIS approved accommodations.

Informing other staff or faculty does not constitute registering with OASIS. Accommodation requests are evaluated individually to make a determination regarding the provision of reasonable accommodations based on a review and analysis of documentation and circumstances.

Determination of accommodations can be an involved and lengthy process; therefore, students are encouraged to begin the OASIS registration process and submit any required documentation as soon as possible. For incoming students, this should be done **eight weeks prior** to their first semester. For current OASIS students, accommodation renewal appointments should also be made eight weeks prior to each semester to allow time to provide supported accommodations in a timely manner. Students who don't meet these timelines are still encouraged to call OASIS for information or an appointment.

Proof of purchase for textbooks is required before alternate format materials can be ordered which can take **up to eight weeks** to receive.

It is OASIS' practice to NOT support accommodations on a provisional basis. However, OASIS may, at its discretion, support accommodations on a provisional basis (one semester only) in the absence of any required documentation but in the presence of circumstances that indicate an obvious qualifying disability (i.e. Blind/Low Vision or Deaf). However, students who receive provisional accommodations must provide the required documentation in order to continue receiving accommodations beyond the one semester of provisional accommodations. Updated documentation may be required depending on the

disabling condition, current status of the student and the student's request for accommodations.

Please note the following:

1. Accommodations will not be provided even on a provisional basis if there is no indication of a qualifying disability as determined by an OASIS Accommodation Request Determination review. Also, the following may not permit the implementation of any supported accommodation(s): required course Standard Competencies; required essential job duties of an internship or practicum; or degree requirements or national technical standards. Please check with your program area regarding requesting contact information to request accommodations for any professional certification of licensure testing that is not administered by the College. Please refer to the Disability Services Notification for Faculty (accommodation form) for requests that are not guaranteed accommodations because they are discretionary.
2. Documentation accepted by & accommodations provided by PPCC/OASIS may or may not be accepted by testing agencies or other higher education institutions.
3. Accommodations provided in the academic environment may or may not be provided at internships, clinical sites, or in the workplace. Please consult with your program adviser &/or Department Chair & Human Resources at your place of work.

It is the student's responsibility to self-advocate for approved accommodations that are not being provided since accommodations cannot be provided retroactively.

All students, with or without a disability, must adhere to the Student Code of Conduct.

Computer Access Center. The Computer Access Center is located at the Centennial Campus. The center utilizes computer assistive technology such as screen readers, voice recognition, alternative input/output devices, and screen magnification. Courses combining word processing and assistive technology are offered.

Interpreting Services. Interpreter, Oral, and Transliteration services are available for Deaf and hard of hearing students. Call 719-502-3026 or VP 358-2453 for more information.

Information Technology Support Services

Centennial Main Office • B-201 • 502-2438

Centennial Computer Lab • A-300 • 502-2442

Downtown Studio Computer Lab • DO-N106A • 502-2443

Rampart Range Computer Lab • E-203 • 502-2408

The Information Technology Support Services (ITSS) division provides a wide variety of technology services to the College, as well as limited service to the Colorado Community College System and other State entities. Our services span desktop-to-server-to-mainframe computing, networks, telecommunications, Internet connectivity, administrative and academic systems, security, instructional technology, computer labs, plus many support services.

ITSS works with College divisions and departments to develop and implement new systems and technologies. At the same time, we provide quality service and support to all members of the College community.

ITSS provides current students with an account on the instructional network and an e-mail address accessible via the Internet.

Classroom and lab computers are networked with access to the Internet and the instructional network. Each full service campus has its own local area network (LAN). All campus LANs are connected via high-speed connections to provide students, faculty, and staff with the ability to seamlessly access data from

any campus. Regular backups are performed to ensure that coursework and other data are recoverable in the event of a disaster.

Wireless Access. Wireless access to the Internet is available in the student commons areas of the Centennial, Downtown, and Rampart Range Campuses.

IT Service Desk. The IT Service Desk is located in room B-201 at Centennial Campus and is open Monday-Friday from 8:00am to 5:00pm and Fridays from 9:00am to 5:00pm. The help desk can be reached 24/7 via telephone at 1-888-800-9198 or online at <http://help.ppcc.edu/>.

Computer Labs

ITSS computer labs at the Centennial, the Downtown Studio and Rampart Range campuses are available to students, faculty, and staff. ITSS computer labs are also open evenings and weekends to provide students with extended access to technology resources. Hours of operation vary by semester and by campus, so please call for current lab hours or visit www.ppcc.edu/services/computer-services/computer-lab/.

Lab staff is available to assist students, faculty, and staff with questions and/or problems in the computer labs. Students seeking tutoring services should contact the Learning Assistance Center/Tutoring at 719-502-3444.

Centennial Campus Computer Lab. Located in room A-300, the computer lab at Centennial campus has over 130 computers including both PCs and Macs. The Centennial Campus computer lab includes a multimedia area available for students emphasizing Multimedia Graphic Design (MGD) and Computer Aided Drafting and Design - Mechanical programs. This area of the lab is available for all students, faculty, and staff with preference given to those students currently enrolled in MGD and CAD classes.

Downtown Studio Campus Computer Lab. Located in room DO-N106a, the lab is equipped with 20 multi-platform computers. Access to the Internet, as well as the instructional network, is provided to assist students with their coursework.

Rampart Range Campus Computer Lab. Located in room E-203, this computer lab is equipped with 33 multi-platform computers. Each computer has access to the Internet, as well as the instructional network, is provided to assist students with the completion of coursework.

Learning Assistance Centers

Centennial • A-212 • 502-3444

Downtown Studio • DO-S126 • 502-3444

Rampart Range • S-201 • 502-3444

www.ppcc.edu/lac

The Learning Assistance Centers provide free academic support resources that empowers student success through collaborative learning, individualized advancement, leadership development, and meaningful dialogues. LAC services are available to all PPCC students and include:

- Tutoring
- Placement Test Preparation Workshops
- College Success Workshops
- Individualized Academic Success Planning (i.e. study skills, test anxiety, etc.)

Students seeking tutoring and other academic support services must:

- Follow the course sequence outlined by their academic advisor (tutoring does not take the place of prerequisites)
- Be enrolled in the class for which tutoring is requested
- Attend class, participate and make reasonable academic progress

- Utilize other available College resources (i.e. Math Center and/or Writing Center)

Schedules for all services are available on the LAC website. Tutoring sessions are available on a drop-in basis. Requests for LAC services can be submitted via email at lac@ppcc.edu. All LAC services are dependent upon available resources and are subject to change; instructor referrals do not guarantee tutoring assignments.

Library

Centennial • A-201 • 502-2400

Rampart Range • N-201 • 502-2440

www.ppcc.edu/services/library

The Library provides a supportive learning environment at both the Centennial and the Rampart Range Campuses. Services provided at both locations include research assistance, computer access, group study rooms, and interlibrary loan. Resource materials include electronic databases, 100,000+ e-books, online subject-specific research guides, print books, magazines, DVD's, music CD's, audio books, and archived materials. Electronic resources such as the databases or ebooks are available on or off-campus.

Reference and Research Service

Our professional reference staff members serve as information guides to help students, faculty, staff, and community users find their way to the most relevant sources, whether using databases, the web, or print resources. The reference staff also provides research instruction to classes, creates online research subject guides and videos. Reference librarians are available for research assistance in-person, virtual chat, texting, email, and by phone.

Math Centers

Centennial • A-316 • 502-3250

Downtown Studio • DO-S207 • 502-3270

Rampart Range • N-200 • 502-3260

The Math Centers offer a pleasant environment where students can drop in to do their homework and receive free tutoring from math faculty members or PPCC math students. Most tutors can help with graphing calculators and the web-based software packages, MyMathPlus, and ALEKS.

The Math Centers' schedules, the level of expertise offered in each math class throughout the day, and directions for online tutoring assistance are posted at PPCC Home Page > Services > Math Center. Please go to www.ppcc.edu/services/math-centers/ for the current schedule.

Current textbooks, solution manuals, and DVD's can be checked out for use in the Math Centers. Other reference texts can be checked out and taken home for a month at a time.

Testing for math courses is offered at the Centennial Math Center only.

New Student Orientation (NSO)

New Student Orientation at PPCC is a one of a kind experience that will introduce the tools and resources needed to be a successful student. You will be fully immersed into the life of a PPCC student in a classroom style setting covering important topics such as success strategies, campus resources, and technology. All students are welcome to attend a New Student Orientation and will have the chance to win some awesome prizes!!

Currently, New Student Orientation is a required component for all students enrolled in AAA-109 courses at PPCC. It is possible to complete this assignment for the AAA-109 before the semester begins, so please call as soon as possible to reserve your spot as seats are limited.

New Student Orientation is offered year around and will vary in times and days between campuses, please visit our website for the monthly schedule at www.ppcc.edu/nso. We currently offer NSO sessions in both English and Spanish. Please call our office directly to schedule at 719-502-2360.

Ombudsman

Centennial • A-324 • 502-2012

The PPCC Student Ombudsman is a neutral person available to assist students who are seeking resolution to problems or concerns relating to their educational experience at PPCC. The Ombudsman can help students navigate college organizational structure and bureaucracy, and assist with understanding of policies and procedures. For additional information call 719-502-2012 or email ombudsman@ppcc.edu.

Records

Centennial • A-107 • 502-3000

Downtown Studio • DO-S100 • 502-3000

Rampart Range • S-102 • 502-3000

All records of enrollment at PPCC are kept in the Enrollment Services Centers. Transcripts are available free upon request within certain timelines, normally one to three days for processing. Transcripts are not released without the student's signature and will not be released until all accounts with the College are current. Students may view their records and ask to have information corrected or kept private.

The College releases directory information upon legitimate request. Directory information is defined as a student's name, year of birth, semesters attended, most recent previous school attended, major field of study, and degrees and awards received. To keep this information private, students may file a written request with the Enrollment Services Centers. The form is located at www.ppcc.edu/current-students/records.

All students attending classes at PPCC are assumed to be independent, and therefore, information, other than directory information, is not provided to parents or other persons or agencies unless the student authorizes the release of data by completing the "Release of Non-Directory Information" form.

No transcript or information other than that listed above is normally released to the public without written consent that specifies the information to be released. The College releases records and accounts to appropriate U.S. government representatives in compliance with federal statutes. In addition, certain state officials may lawfully be entitled to information from student records.

Information concerning the Family Educational Rights and Privacy Act is available in the Enrollment Services Centers and online at www.ed.gov/policy/gen/guid/fpco/ferpa/index.html.

All application/records materials become property of PPCC when submitted to the institution.

Retention Services

Centennial • A-118 • 502-2360

Downtown Studio • DO-S126 • 502-2360

Rampart Range • S-207 • 502-2360

The Retention Services department offers a variety of services to support student success at PPCC. Whether you're a new or currently enrolled student, you can meet with one of our Success Coaches to receive detailed information on PPCC services and referrals to campus and community resources.

Listed below are just some of the resources we can assist with and refer PPCC students to:

- Connections to community agencies
- Food
- Job searches
- Mentoring
- Navigating PPCC
- New Student Orientation
- Technology
- Transportation
- Tutoring
- and more. . . www.ppcc.edu/resources

Please visit our website at www.ppcc.edu/retentionservices for available walk-in times and campus locations to meet with a Success Coach or please call our office at 719-502-2360 to schedule an appointment.

Southern Colorado Educational Opportunity Center (SCEOC)

Centennial • A-115 • 502-3028

Downtown Studio • DO-S126 • 502-3028

The SCEOC helps low-income or first-generation college students. Services include help with completion of financial aid and admission applications, guidance in selecting a college, and information about current scholarships as well as online scholarship searches, federal tax preparation, career counseling, testing, and workshops. All services are free.

Student Counseling and Resource Center

Centennial • C-206

Downtown Studio • DO-S126

Rampart Range • S-207B

Between classes, work, family, finances and regular life events, college students encounter a great deal of stress over the course of their education. While most students cope successfully with the demands of college life, for some the pressures can at times become overwhelming and unmanageable. At those times, the Student Crisis Counseling Office is here to help. We have licensed counselors who provide confidential crisis intervention and support, and referrals to campus and community resources as well as for ongoing counseling and Mental Health care.

To reach our Crisis Counselors call **719-502-4782**. If you or another person experiences a mental health crisis or other emergency outside of normal business hours, call Public Safety at 2911 from campus. If you are off campus go to your nearest Emergency Room or dial 911.

As always, if you are on campus and experience or observe a dangerous situation call Public Safety at 2911.

Online resources are also available at www.ulifeline.org/schools/ppcc, an anonymous, internet-based resource that provides students with non-threatening and supportive links to information and resources, and information regarding stress, pressures of college life, depression or mental illness and more. ULifeline was created by students for students with the support of the JED Foundation and under the supervision of respected mental health professionals (adapted from www.jedfoundation.org retrieved January 2007).

Important Note: By acting as a resource broker for the aforementioned services (i.e. counseling, treatment, re-entry programs and rehabilitation services), the State of Colorado, the State Board for Community Colleges and Occupational Education (SBCCOE), Pikes Peak Community College and its former and current employees assume no responsibility/liability for the

services (or lack thereof) provided by the referred agency or agencies.

Pikes Peak Community College, the State of Colorado, the State Board for Community Colleges and Occupational Education (SBCCOE), and its former and current employees are not responsible for any content on Ulifeline's website that is posted outside of PPCC's dedicated web space.

Testing Center

Centennial • A-117 • 502-3370
Downtown Studio • DO-S102 • 502-3390
Rampart Range • S-101 • 502-3380

In addition to the college skills placement testing, the Testing Center offers the following services:

- CLEP and DSST (DANTES) testing for college credit
- GED testing for the Colorado High School Equivalency Diploma
- Independent Study, Telecourse, and classroom make-up testing
- Test proctoring for other colleges
- Various certification exams
- LSAT on national test dates

All new students entering the English Language Institute (ELI) must take a placement test. This test will place new students into one of three levels; basic, intermediate, or advanced. The test is available on computer at all three campuses or in paper/pencil format for those students who are not comfortable with computerized tests. ELI students should call 719-502-3535 for further information.

Accommodations are available for students with documented disabilities.

Please call any of the Testing Centers for additional information.

TRiO-Disabled Student Support Services

Centennial • C-207

Disabled Student Support Services (DSSS) is a federally funded program that helps students with disabilities, particularly veterans, achieve college goals.

Eligibility

To be eligible to participate in the TRiO-Disabled Student Support Services Program, students must meet the following eligibility requirements:

- are U.S. citizens or Permanent Legal Residents,
- have a documented disability on file with OASIS,
- are low income with a documented disability on file with OASIS,
- plan to graduate from PPCC and/or transfer to a four-year college or university,
- be enrolled in an Associate's Degree program at PPCC (full time students have priority).

Available Services for Participating Students

- Individual and small group tutoring
- Academic and career planning
- Peer academic mentoring
- Scholarship and financial aid searches
- Pre-semester student conferences
- Help with transfer decisions
- Financial and economic literacy workshops
- Learning community environment

The U.S. Department of Education Office of Postsecondary Education has awarded Pikes Peak Community College a \$1,099,755 TRiO Disability Student Support Services grant to provide individualized academic and personal support services to

eligible students with disabilities, particularly veterans. The grant provides 55% of the funds needed for the program. Pikes Peak Community College will provide at least 45%, or \$178,480 annually in additional resources.

TRiO-Student Support Services

Centennial • A-121 • 502-3222

www.ppcc.edu/sss/

The TRiO Student Support Services Office is available to help low income and first generation students graduate and transfer to a four year college and all of our services are FREE.

Student Support Services offers the following services to program participants:

- Assessment of learning strategies and study skills
- Customized study skills help
- Academic and career planning
- Four-year college university campus tours and transfer advising
- Professional and peer academic mentoring
- Help with Math courses
- Scholarship and financial aid searches
- Financial and economic literacy workshops
- Pre-semester conferences and workshops

We serve a limited number of students every year and we invite you to apply. You can pick up an application at our Centennial Campus office A121 (first floor of Rotunda) or download from: www.ppcc.edu/sss/.

Requirements

1. Be enrolled in a transferable associate's degree program at PPCC
2. Demonstrate a need for academic support to successfully complete a PPCC degree and transfer to a four-year college
3. Meet low income guidelines and/or first generation college student and/or a student with a documented disability
4. Be motivated
 Centennial Campus, 5675 S. Academy Blvd., Room A-121
 Downtown Studio Campus, 100 W. Pikes Peak Ave., Room S-126
 Rampart Range Campus, 11195 Highway 83, Room S-101

Military & Veterans Programs

Centennial • C-222 • 502-2060

Pikes Peak Community College is approved by the Colorado State Approving Agency for Veterans Education. Our degree and certificate programs are approved for payment of educational benefits to those veterans and dependents that are determined eligible by the Veterans Administration.

The Veterans Affairs (VA) Office will help eligible veterans and dependents apply for veterans' education benefits. The VA Office will also help with VA tutoring, vocational rehabilitation, and advising. For information and forms go to www.ppcc.edu/current-students/special-assistance-programs/veterans or email va@ppcc.edu.

Veterans Upward Bound

Centennial • C-222 • 502-4545

The Veterans Upward Bound (VUB) program offers free classes and advising to qualified veterans and active duty military members. The classes offered are English, Math, Spanish, Basic Science, Computer Skills and Career Counseling. All class materials are provided by VUB.

VUB staff members are VA certifying officials and provide assistance for financial aid, scholarships, and admission applications. Emphasis is on low-income and first-generation students.

Courses do not count for college credit but prepare the student for college. The free English and Math classes can be taken in lieu of remedial classes at PPCC to assist students in their basic skills. Classes may be repeated as often as needed.

Visitation Program (Four-year Colleges & Universities)

All Campuses • 502-3237

Representatives from four-year schools regularly visit Pikes Peak Community College to meet with students who plan to transfer after receiving an Associate's Degree from PPCC. The schedules are available online.

Writing Centers

Centennial • A-312 • 502-3510

Downtown Studio • DO-S212 • 502-3530

Rampart Range • N-202 • 502-3520

Pikes Peak Community College offers students personal instruction in the areas of critical thinking, critical reading, English as a Second Language, and effective writing at all campus locations. We offer one-to-one conferencing, online tutoring, and computer assisted instruction for students enrolled in any course, not just English Composition.

Writing Center instructors can help with the writing process, topic focus, content development, organization, research strategies and documentation; and we can help students develop skill with self-editing (principles of grammar and mechanics). While we do not simply copy-edit (proofread) papers for students, we will help students learn to identify patterns of errors in their own writing, and we will help students find ways to correct those errors.

Please drop-in (or call) to make an appointment or to browse our collection of handouts covering common writing concerns. You may also e-mail us at owl@ppcc.edu. And please do check us out at www.ppcc.edu/current-students/special-assistance-programs/writing-center.

STUDENT LIFE

In This Section

Activities	35
Athletics.....	35
Campus Center	35
Fitness Center.....	35
ID Cards.....	35
Recreation/Sports Clubs.....	35
Student Clubs and Organizations	35
Student Government	35
Sustainability	37

Student Life

Centennial Campus • A-210 • 502-2522

Downtown Studio Campus • DO-N106b • 502-2538

Rampart Range Campus • S-207 • 502-2577

Activities

The Campus Activities Office directs a full schedule of cultural, wellness, arts, and topical events aimed at enriching student life on campus. Lunch hour concerts, make-overs, horoscope readings, juggling, and novelties typify activities between classes. Wellness and lifestyle activities include the Fitness Fair, Smoke-out, blood drives, flu shots, and personal growth focused programs. Multi-cultural events include heritage focuses on African Americans, Native Americans, and women, with special events offerings of Cinco de Mayo activities, Mariachi music, and West African dance. Current events are covered with a wide range of speakers, panels and forums. The Campus Activities Office invites your ideas and participation. Please call 719-502-2091 for more information.

Discounted tickets and selected city and state events are available to students. PPCC also has a membership to the Colorado Springs Fine Arts Center, making admission to the gallery and access to the art library free to students as well as offering discounts in the FAC gift shop and events. Through the Student Life Office, students can also reserve meeting room space in the Campus Center.

Athletics

PPCC has three independent sports teams. Co-ed soccer, karate, and volleyball teams compete on recreation leagues. The club team programs are housed at the Centennial Campus in the Recreation and Sports Programming Office. For information about athletic programs, team try-outs, and a schedule of team events, call 719-502-2555.

Campus Center

Centennial Campus houses a campus center, called The Grove, where student faculty and staff can relax and build community. This facility is "home away from home" where one can find a lounge area, study space, TV, free Wi-Fi, music and games. Student Government is located across the hall. Student Life Offices are located here. The Downtown Studio and Rampart Range Campuses each house student space for lounges, study areas, activities, vending machines and Student Life.

Mission Statement: Student Life invests in student success by building community through programs, services and environments that inspire learning, promote personal growth, and foster responsible citizenship.

Fitness Center

Centennial Campus • A-262 • 502-2555

The Fitness Center is a state-of-the-art cardiovascular/weight training facility located at the Centennial Campus. The facility has computerized bicycles and treadmills; a 12-station Super Circuit; elliptical trainers; AMTs; stair-stepper; bench press, smith machine, dumbbells, kettlebells, medicine balls and over a dozen muscle group machines. The Fitness Center is open six days a week. To use the Fitness Center, students must enroll in either PED 102, PED 110, PED 111, PED 112, PED 113, PED 140 or join the Student Wellness Program. The cost is \$25.00 a month or enroll in a PED course.

ID Cards

Every PPCC student needs a photo Student Identification Card. A properly validated Student ID Card enables students to use the Library to check out materials or use the computer lab or other services. It also entitles students to free or reduced admission to student plays, dances, events, and other activities.

Students may obtain a Student ID Card their first semester at PPCC at the Campus Center Info Desk at Centennial, the Downtown Studio or Rampart Range Campuses. This ID is valid for the student's entire career at PPCC. If the ID Card is lost, students can obtain a replacement ID for a charge. Proof of identification such as a driver's license, photo ID, etc., is required for all new and replacement IDs.

Other Photo ID's. The Student Life office will also produce special ID's for nursing practicum students, Fitness Center members, etc. upon special arrangement for a nominal charge.

Recreation/Sports Clubs

The Recreation and Sports Office is in the Centennial Campus gymnasium. The gymnasium is open for recreational use by students and staff. Open gym activities include basketball, volleyball and aerobics. The recreation program includes intramural, recreational tournaments, wellness events and outdoor equipment rentals. The office schedules/coordinates the gymnasium, track and soccer field. Club sports such as skiing, basketball, volleyball, karate, soccer and others are available. For information, call 719-502-2555.

Student Clubs and Organizations

More than 20 active student clubs and organizations are available on campus. Some are active relative to an academic/professional area such as Phi Theta Kappa (PTK), Phi Beta Lambda (PBL), Club America Sign Language (CASL), Nurses Organization (PPCCANS) and Student Veterans of America (SVA), etc. Others are related to activities/interests such as basketball, skiing. Still others are active along multicultural/ethnic interest lines, such as Asian Culture Club, Multicultural Student Union, etc. Involvement in clubs and organizations is a great way to meet students, to learn and practice leadership skills, and to gain a sense of belonging and loyalty to PPCC.

Student Government

Participation in Student Government is a great way to strengthen leadership skills. Student leaders work on various issues affecting students and allocate student activity fees to enhance campus life. Student Government is composed of the president, vice

president, secretary, and treasurer; 12 senators; and a State Student Advisory Council representative.

Elections are held during spring term. The executive officers are elected during spring term. All elections are now done via an online ballot, watch your student e-mail accounts for information.

Sustainability

The Office of Sustainability was created and funded by Student Government to engage, educate and equip the Campus Community to adopt sustainable lifestyle habits. These behaviors have the potential to collectively benefit the wellbeing of people, economy and natural environment. The Sustainability Coordinator collaborates with on and off-campus specialists to provide relevant opportunities for students, staff and faculty to discover sustainability. To learn more and get involved, visit our webpage at www.pcc.edu/about/sustainability.

SERVICES FOR THE COMMUNITY

In This Section

Activities and Events.....	37
Community Education, Customized Training and Workforce Development.....	37
The Downtown Studio Gallery	37
KEPC Radio - 89.7 FM	37

Because we are a community college, we continually develop new ways to contribute to our community. To make education more accessible, we offer classes at a variety of locations and times. eLearning and outreach locations make classes convenient for residents in all parts of our service area. We work with local school districts to provide educational opportunities for high school students.

Activities and Events

As a service to the community, PPCC opens all of its campus activities and events to the public, many free of charge. A sampling of public activities and events are as follows:

- African American History Month
- Cinco de Mayo Events
- Family Events
- Living History Series
- Native American Heritage Events
- Social Activities
- Veteran's Day Observance
- Women's History

For more information, call the Student Life Office at 719-502-2522.

Community Education, Customized Training and Workforce Development

The Workforce Development Division provides personal and professional development courses for individuals and customized training programs for employers. Affordable non-credit professional development and personal enrichment courses are available, whether students are gaining new skills for work or furthering personal interests. New Community Education classes begin throughout the year.

Workforce Development and customized training programs include a diverse assortment of training solutions and services to help employers meet their training needs. Employers are offered a free training assessment and provided with recommended solutions. In addition, industry-focused, entry-level job training programs are offered to meet the immediate hiring needs of local companies.

The Division also administers grants to assist companies with funding workforce training. For more information, contact the Workforce Development Division at 719-502-2404.

The Downtown Studio Gallery

The Downtown Studio Gallery is located in the Downtown Studio Campus of Pikes Peak Community College at 100 West Pikes Peak Avenue. It is a public gallery with a multicultural emphasis. Six to eight exhibits created primarily by artists in the Pikes Peak region, including faculty and students, are offered each year, free and open to the public. Opening receptions often include music, poetry, and dance performances that enhance the theme of the show. For more information, call 719-502-4040.

KEPC Radio - 89.7 FM

Students in the Radio and Television program at Pikes Peak Community College can be heard in Colorado Springs on 89.7 FM, 101.5 in Pueblo and 89.1 in Manitou Springs. Broadcasting in high definition (HD) with nearly 10,000 watts of power, KEPC programs provide a wide variety of music and other programming.

Throughout the semester, PPCC Radio and Television students produce many public service announcements and promotional announcements of interest to PPCC students and community members. Listeners will receive information about PPCC activities and events, many that are free and open to the public.

KEPC is on the air 24 hours a day, seven days a week. KEPC can be heard live globally on the Internet at www.pccc.edu/KEPC/.

For more information, call 719-502-3166.

EDUCATIONAL PROGRAMS

In This Section

Degree and Certificate Criteria	38
Degree Eligibility	38
College Preparatory Programs	38
Online Learning/eLearning Options	39

Degree and Certificate Criteria

To receive a degree or certificate, students must satisfactorily complete the program requirements outlined in the PPCC Catalog in effect when they were first admitted to the College. If students have not attended for two semesters (excluding the summer term), they must meet the program requirements published in the catalog in effect at the time of re-enrollment. In some cases, the Vice President for Instructional Services may waive this requirement and specify an alternative course of study. Students may not re-enroll in a program which has been or is in the process of being discontinued. If students take longer than five years to complete a program and the program requirements change, they will need to request a waiver from the program division to graduate under the old requirements.

Pikes Peak Community College offers Associate of Arts (AA), Associate of Science (AS), Associate of Applied Science (AAS), and Associate of General Studies (AGS) degrees and Certificates of Completion. There are day and night classes in over 120 areas of study in arts and sciences (transfer) and career and technical areas. Career and technical programs prepare students to enter the workforce after graduation. Arts and sciences (transfer) courses provide the first two years of a bachelor's degree. Additionally, courses may be taken for personal enrichment or to learn specific skills. Some career and technical programs run for 5 or 7 1/2 week sessions, and some will accept student enrollments at any time.

Many freshman and sophomore level courses (numbered in the 100s and 200s) will transfer to four-year colleges and universities in Colorado, and a number of public and private schools outside Colorado. PPCC is a member of the GT Pathways Curriculum project, a statewide articulation process among all state community colleges, four-year colleges, and universities. Academic advising is available if students wish to transfer to another school after graduating from PPCC. Pikes Peak Community College has special transfer arrangements with many public and private four-year colleges and universities. Visit www.ppcc.edu/prospective-students/transferring-from-PPCC/ to learn more.

AA and AS students must complete all required courses with a grade of C or better in order to apply for a degree or certificate. Remedial courses and elective credits that are not required by the applicable program are not included in this requirement.

Certain courses are scheduled to be taken together as a set during one semester. Each of these courses builds on and complements the knowledge and skills learned in the other. The course description for each of these paired courses refers to the concurrent enrollment requirements.

Some programs require that a course sequence be completed. Courses in one sequence are not interchangeable with courses in the other.

College preparatory courses in English, reading, mathematics, study skills, and English as a Second Language are designed to help improve skills and facilitate success in college work. Courses numbered below 100 are developmental and normally are not

accepted for transfer by other schools and normally do not count toward degree requirements at PPCC.

Independent study and selected topic courses are individually evaluated for transfer by the receiving school based on petition. Students should keep all records of the class (syllabus, tests, papers, and other projects) for evaluation by the receiving school.

Degree Eligibility

Students who receive an AGS degree may subsequently pursue an AA, AS or AAS degree. If they have received an AAS degree, they may pursue an AA, AS or AGS degree. However, students who have completed the degree requirements for an AA or AS degree from PPCC may not then also apply for an AGS degree.

PPCC will accept 45 applicable credits toward a second degree or certificate.

Having earned an associate or higher academic degree from an accredited school generally disqualifies students from receiving an associate degree from PPCC in an identical or closely related program. However, the Vice President for Instructional Services may waive this restriction.

College Preparatory Programs

Purpose and Goals

In order to maximize student success, PPCC provides placement testing and college prep courses so students can be assured they are prepared to begin their course of study. Students enroll in college prep courses in mathematics, English, and study skills (Advancing Academic Achievement courses) as prerequisites for college courses as well as for personal enrichment. Research indicates that students who need and take these courses do better in their college-level courses than they would have without them. Refer to the Basic Skills Assessment Matrix.

Advancing Academic Achievement

For students who have concerns about meeting the challenges of college academic requirements or for students who want to improve the study skills they may have learned in previous educational settings, Pikes Peak Community College provides the Academic Achievement Program. Courses in this program are designed to help students develop personalized learning strategies in the areas of time management, goal setting, note-taking, test-taking, textbook reading, memory development, and critical thinking. Students are encouraged to enroll in the appropriate study skills course prior to starting their degree or certificate programs.

AAA 109 Advanced Academic Achievement

There are two curricula for AAA 109: Ice House and On Course. Both courses have the same outcomes associated with enhancing student success; but are explored in different ways. The Ice House curriculum helps students achieve these outcomes by working through the process of identifying a problem to solve for others, working in groups beyond the classroom, interviewing members of the public and proposing a solution. The On Course curriculum specifically addresses aspects of student success.

Ice House: This course is designed to help students create greater success in college and in life. Students will be inspired and engaged in the fundamental aspects of an entrepreneurial mindset and the unlimited opportunities it can provide. Sponsored by the Ewing Marion Kauffman Foundation, this revolutionary new program will enable students to learn directly from the firsthand

knowledge and experience drawn from a wide variety of successful "unlikely" entrepreneurs - ordinary people who transformed a simple idea into a sustainable success. Inspired by the life story of Pulitzer nominee Clifton Taulbert and the entrepreneurial influence of his Uncle Cleve; the Ice House Entrepreneurship Program draws on eight fundamental concepts that can empower anyone to succeed.

On Course: This course is designed to help students create greater success in college and in life. Students will learn many proven strategies for creating greater academic, professional, and personal success. Students will use guided journal writings, activities and discussions to explore these strategies; and as a bonus, learn to express themselves more effectively in writing. Students may never again have an opportunity quite like this one to discover how to create a rich, personally fulfilling life. I urge you to make the most of this extraordinary opportunity! If you do, you will dramatically change the outcome of your life—for the better!

For further information about the AAA 109, please call 719-502-3600.

English Preparatory Program

College Preparatory English courses cover basic writing and grammar. These courses are a good refresher for students who have not written college reports or essays. The writing courses, assigned according to placement test scores, help students to express their thoughts in complete sentences, organized paragraphs, and whole compositions. The writing courses progress in the following order:

- | | |
|---------|---|
| CCR 092 | Integrates and contextualizes college level reading and writing. Students will read and understand complex materials and respond to ideas and information through writing informative and/or persuasive texts |
| CCR 094 | Must be taken concurrently with ENG 121. Integrates and contextualizes reading and writing strategies tailored to co-requisite ENG 121 coursework. Students will read and understand complex materials, and respond to ideas and information through writing informative and/or persuasive texts. |

Mathematics Preparatory Program

College preparatory mathematics courses prepare students for college-level mathematics courses or entry into many occupational programs. Enrollment is based on placement test scores or successful completion of the course prerequisite.

- | | |
|---------|--|
| MAT 050 | Develops number sense and critical thinking strategies, introduce algebraic thinking, and connect mathematics to real world applications. Topics in the course include ratios, proportions, percents, measurement, linear relationships, properties of exponents, polynomials, factoring, and math learning strategies. This course prepares students for Math for Liberal Arts, Statistics, Integrated Math, and college level career math courses. |
| MAT 055 | Develops algebraic skills necessary for manipulating expressions and solving equations. Topics in the course include radicals, complex numbers, polynomials, factoring, rational expressions, quadratic equations, absolute value equations and inequalities, systems of linear equations, related applications, and math learning strategies. This course prepares students for College Algebra and Finite Math. |

English as a Second Language Preparatory Program

Centennial Campus • F-200 • 502-3535

The English Language Institute (ELI) is located at the Centennial Campus. It is a semi-intensive English as Second Language program, designed to meet the needs of non-native English speakers. The ELI serves students who wish to improve their English reading, writing, and speaking skills. Many ELI students plan to attend an American college or university or need to improve their English skills for the workplace.

Any student who is interested in taking ELI courses must take the ELI placement exam. Non-native speakers of English whose placement level is below CCR 092 should take the ELI placement exam and be advised by the English Language Institute.

The English Language Institute has three levels of study: basic, intermediate, and advanced. Courses in the ELI include grammar, pronunciation, composition, reading, and listening/speaking. Full-time students may complete coursework in the ELI in three semesters.

For more information about the English Language Institute at Pikes Peak Community College, visit our website at www.pgcc.edu/eli or call 719-502-3535.

Basic Level

ESL 021	Basic Grammar	5
ESL 031	Basic Listening & Speaking	4
ESL 041	Basic Reading	4
		13

Intermediate Level

ESL 022	Intermediate Grammar	5
ESL 032	Intermediate Listening & Speaking	4
	or	
ESL 042	Intermediate Reading	(4)
ESL 052	Intermediate Composition	4
		13

Advanced Level

ESL 023	Advanced Grammar	5
ESL 043	Advanced Reading	4
ESL 053	Advanced Composition	4
		13

Additional electives can be taken at any time after Basic Level. These electives do not count toward level completion in the English Language Institute.

ESL 011	Basic Pronunciation	3
ESL 012	Intermediate Pronunciation	3

Online Learning/eLearning Options

PPCC offers a variety of non-traditional learning options for students who cannot or do not wish to take courses in a traditional classroom setting. The eLearning alternatives include a wide variety of fully online and hybrid (part online/part classroom) classes. Go to www.pgcc.edu/academics/eLearning to review the options for online learning from home or work. All PPCC online courses are conducted within normal term dates, with fixed deadlines for assignments and tests.

Alternately, students who need to set their own schedules for coming to campus can take open entry/open exit courses in business and occupational areas. They can also arrange to complete coursework in specific classes through Independent Study by contacting the appropriate Division Office.

CCCOnline (Sections C11, C21)

Courses are offered through a consortium of 13 community colleges in Colorado. Students will register as a PPCC student, but an instructor may teach the classes from any of the 13 schools. Check the website for complete information. Students may also apply appropriate CCCOnline classes toward degrees at PPCC. For more information go to www.cconline.org.

Online and alternative delivery classes meet the same course outcomes as their traditional counterparts and are subject to the same transfer agreements. In addition, there are transfer agreements with colleges both in-state and out-of-state that offer Baccalaureate completion programs using distance/electronic technology.

For more information, please call (719) 502-3555 or (800) 456-6847 or e-mail to eLearning@ppcc.edu.

Students on active military duty, please call 719-502-4100 or e-mail mil.programs@ppcc.edu.

Credit for Prior Learning (CPL)

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

- **portfolio:** learning through experiences such as reading and study, work, and on-the-job training or special classes
- **standardized testing:** a satisfactory score on nationally accepted tests such as CLEP and DANTES
- **published guide:** learning given in a nontraditional setting such as a military or industry classroom which must be evaluated in a published guide by a nationally known organization such as the American Council on Education (ACE)

PPCC evaluates prior learning through the Credit for Prior Learning program (CPL). Students may receive up to 75 percent of their total credits for all types of prior learning. For more information, stop by the Enrollment Services Center at the Centennial Campus, or call 719-502-3000. Military and Veteran students, contact Department of Military & Veterans Programs at 719-502-4100.

Students who wish to receive credit for prior learning and plan to transfer to another college or university should verify these credits will transfer. Policies on awarding transfer credit vary from school to school.

Independent Study Courses

Extended learning options may be offered for students who cannot come to the PPCC campus or cannot attend courses that are scheduled for a standard semester. Learning options available for both regular curriculum and special contract programs include independent study.

College credit is awarded for these courses.

Students receiving financial aid are cautioned to contact the Enrollment Services Centers when registering for independent study courses.

Military and Veterans Programs

Pikes Peak Community College is dedicated to serving the needs of active duty military and their family members, veterans and their family members. We are a military friendly institution that delivers high quality education in a wide variety of career, technical and academic areas.

A comprehensive career education program is offered off campus to military personnel for resident credit. Evaluation of previous military education and training, federal government training, and work experience for the possible awarding of credit is available.

PPCC also has been selected by the Defense Activity for Non-Traditional Education Support (DANTES) as an approved college and is listed in the DANTES Guide to External Degree Programs.

The Associate of General Studies (AGS) degree is offered in conjunction with the Credit for Prior Learning (CPL) program.

Courses for resident credit are offered at the following military installations:

Fort Carson, Colorado
Peterson Air Force Base, Colorado

Veterans may be certified for educational benefits at the Centennial Campus, room C-222.

Students on active military duty should call either the Ft. Carson office (Army) at 719-502-4200 or the Peterson AFB office (all other branches) at 719-502-4300. Please see our website at www.ppcc.edu/military for more information.

Open-Entry/Open-Exit Courses

Open-entry/open-exit courses are designed to allow students to work at their own pace at times that are convenient for them.

A number of computer courses are offered in the open-entry/open-exit format so that students can begin a course at three different times each semester. These courses are offered at the Centennial, Downtown Studio, and Rampart Range Campuses. For more information, contact the Division of Business, Public Service & Social Sciences at 719-502-3300.

PPCC Hybrid Classes (Sections 1H1,2H1,3H1, etc.)

Hybrid, or blended, classes combine on-campus class sessions with Internet-based course work. In most cases students will meet once a week for lecture, hands-on learning, and face-to-face group activities. Remaining assignments will be completed online. Students can access online activities and assignments from any computer connected to the Internet, including those in campus computer labs.

PPCC Online Campus (Sections 1N1, 2N1, 3N1, etc.)

Courses may be taken using home computers to communicate electronically with faculty and other students online in the "virtual classroom." Students may also use the computers at PPCC in the instructional computer labs to connect to the Internet for online courses.

Service Learning Program

Service Learning is a teaching and learning strategy that integrates meaningful community service with course content and reflection to enrich the learning experience, teach social and civic responsibility and strengthen communities. Service learning is fully integrated into the formal academic course. For additional information and to see a current list of classes offered, visit www.ppcc.edu/service-learning.

Weekend College

It is possible to earn an Associate of Arts degree at Pikes Peak Community College in two years by attending college only on the weekends. PPCC Weekend College at the Downtown Studio Campus offers a variety of classes for the student who wants to earn a degree but can only attend on the weekends or for the student who just wants to pick up an extra class or two. Classes are offered Fridays in the afternoon and evening, and Saturdays throughout the day. The Weekend College experience can also be enhanced with online classes. Internet and Hybrid offerings, blended classes that allow you the flexibility of combining a traditional classroom experience with at-home Internet learning, are a perfect complement to Weekend College. For more information, call 719-502-3000.

Options for Current High School Students

Centennial Campus • A-220 • 502-3111

Area Vocational Program

High school students may enroll in the PPCC Area Vocational Program (AVP), which provides career and technical training in the program areas listed below. This program allows students to earn high school credit. At the end of a student's enrollment period, any college credit earned will be documented by the faculty and forwarded to the PPCC Enrollment Services Centers.

Occupational Programs Available

- Auto Collision Technology
- Automotive Service Technology
- Computer Aided Drafting
- Computer Information Systems
- Criminal Justice
- Culinary Arts
- Diesel Power Technology
- Early Childhood Professions
- Fire Science Technology
- Health Career Exploration
- Health Science Technology
- Interior Design
- Multimedia Graphic Design
- Music Careers
- Radio and Television
- Sign Language and Interpreter Preparation
- Welding
- Zoo Keeping

Students enroll in the Area Vocational Program as part of their daily high school schedule. School districts under contract pay the costs of this program. The Area Vocational Program delivers career and technical education that provides each student with the concepts, academic and technical competencies, career skills, attitudes, and work habits essential to gain entry-level employment following high school graduation.

Instruction is provided in a two hour and forty minute day, five-day-a-week schedule throughout the school year. Instruction is provided in classrooms, laboratories, and community settings that use equipment similar to that used in business and industry.

All area vocational programs operated at Pikes Peak Community College are approved by the State Board for Community Colleges and Occupational Education. All AVP instructors are occupationally

experienced and vocationally credentialed to teach in their area of expertise. Enrollment in AVP is completed at the high school. Contact your high school counselor or call 719-502-3111 for more information.

Articulation Agreements

High school students may earn college credits by taking career and technical education courses at their high school. Pikes Peak Community College has articulation agreements with most local school districts. Depending upon the school district, the high school, and the articulation agreement, these are typically career and technical education (CTE) courses. Courses apply toward degrees and certificates at Pikes Peak Community College but may not transfer to four-year colleges and universities. For more information, call 719-502-3111.

Concurrent Enrollment

Concurrent Enrollment (CE) is a program for college-bound students seeking degrees and certificates or students who simply want to earn college credit while still in high school. CE enables high school-aged students to take college classes at PPCC and earn high school and/or college credit. Students have the opportunity to enroll in any courses for which they meet the prerequisites. In general, high schools will not pay for developmental courses.

To participate in CE, students must obtain permission from a parent or guardian, high school counselor and/or district administrator and must apply for the College Opportunity Fund (COF). Some school districts have a cooperative agreement with PPCC and may reimburse the tuition, fees and books for qualifying courses. Contact your high school counselor for more specific information. Home-schooled students are also welcome to participate. Contact the High School Programs Office at 719-502-3111 for more information.

High School Student Records

All students attending courses at PPCC are assumed to be independent, and therefore, information is not provided to parents. Students may authorize the release of any data to any person or agency by completing the "Release of Non-Directory Information" form.

For additional information on options available for current high school students, visit www.ppcc.edu/prospective-students/high-school-programs.

DEGREE & PROGRAM REQUIREMENTS

In This Section

Associate of Arts (AA)	42
Associate of Science Degree (AS).....	69
Associate of General Studies Degree (AGS).....	78
Associate of Applied Science Degree (AAS) and Certificates of Achievement	80
Other Programs and Courses of Study	121

Associate of Arts (AA)

The Associate of Arts degrees and Course of Study are designed for students who want a traditional liberal arts education and who intend to transfer to a four year college or university. They provide a basis of study in the areas of arts and humanities, communication, or social sciences.

Pikes Peak Community College partners with other Colorado community colleges and four-year universities to guarantee transfer of the Associate of Arts degrees and Course of Study. Adherence to the Colorado Community College System 60+60 Bachelor's Transfer Program guarantees that at least 60 hours will transfer completely, upon admission, to a Bachelor of Arts major in Colorado's public four-year institutions, where students are guaranteed to be able to finish the Bachelor of Arts degree with an additional 60 credit hours of study.

In addition to the Course of Study, Pikes Peak Community College participates in a statewide articulation agreement for the guaranteed transfer of an Associate of Art in Business, Elementary Teacher Education, and Early Childhood Teacher Education. Students should review the degree requirements of the four-year university of interest and work with their PPCC faculty advisor to ensure a smooth transfer.

To earn an Associate of Arts Degree, students must complete Colorado Community College System 60+60 Bachelor's Transfer Program outlined below. The course requirements total 60 semester credit hours, at least 35 of which must be Colorado State-Guaranteed Courses, and students must earn a C or better in each class.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours			
GT-CO1: ENG 121	English Composition I: CO1		3
	and		
GT-CO2: ENG 122	English Composition II: CO2		3
OR			
GT-CO2: ENG 122	English Composition II: CO2	(3)	
	and		
GT-CO3: ENG 201	English Composition III: CO3	(3)	

Oral Communication

Three (3) credit hours			
COM 115	Public Speaking		3
	or		
COM 125	Interpersonal Communication	(3)	
	or		
COM 220	Intercultural Communication: SS3	(3)	

Mathematics

Three (3) credit hours gtPathways Mathematics courses (MA1)
 GT-MA1: MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265

Art and Humanities

Eighteen (18) credit hours gtPathways Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 214, PHI 218, PHI 220*
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

Social and Behavioral Sciences

Two gtPathways Social & Behavioral Sciences courses from two different areas (SS1, SS2, SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 205, POS 215, POS 225
GT-SS2:	GEO 105, GEO 106
GT-SS3:	AGR 260*, ANT 101, ANT 103, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

History

One gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 205, HIS 207, HIS 208, HIS 215, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 260
---------	--

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, HI1, SS1, SS2, SS3)

Natural and Physical Sciences

Seven (7) credit hours gtPathways Natural and Physical Sciences courses (SC1, SC2) including at least one (1) lab course (SC1, SC2)

GT-SC1:	AGY 240, ANT 111, AST 101, AST 102, AST 155*, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220, BIO 221, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156
GT-SC2:	AST 155*, GEY 108

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Total Credit Hours

Other Requirements

1. A minimum of 60 credit hours in a prescribed program of study with a cumulative grade point average of 2.0 (a C average). At least 15 of these credit hours must be earned from PPCC.
2. Only six (6) elective credits are allowed in any combination of PED courses.
3. Students may concentrate their study in a specialized area such as speech communication, journalism, or political science. Many "Course of Study" are included in the next section of this catalog.
4. Career and technical courses, whether taken at another institution or at PPCC, are not accepted toward this degree without approval of the Vice President for Instructional Services. Approval is given only when it is appropriate to the educational objectives of a student.
5. Courses numbered below 100 do not apply toward degrees.

Foreign Language Note: It is advisable to verify the foreign language admissions requirements for the university/four-year college you are planning to attend. For example, many of the Colorado four-year institutions require foreign languages for admission; the CU system requires 2-3 years of high school foreign language (or equivalent 2-3 semesters at Pikes Peak Community College). Students planning to attend a Colorado four-year institution who do not have the prerequisite foreign language requirement from high school should consider enrolling in these courses in addition to the degree requirements.

Approved Elective Course List for AA Degrees and Course of Study

These courses are guaranteed to transfer as part of the 60+60 Bachelor's Degree Transfer Program. State-wide and individual college transfer agreements prescribe electives which transfer as part of those programs. Students who transfer prior to completing the AA degree are responsible for checking transfer of individual courses with the receiving four-year institution.

Communications

COM 115	Public Speaking	3
COM 125	Interpersonal Communication	3
COM 216	Principles of Speech Communication II	3
COM 217	Group Communication	3
COM 220	Intercultural Communication: SS3	3
COM 225	Organizational Communication	3
ENG 121	English Composition I: CO1	3
ENG 122	English Composition II: CO2	3
ENG 131	Technical Writing I	3
ENG 132	Technical Writing II	3
ENG 201	English Composition III: CO3	3
ENG 221	Creative Writing I	3
ENG 222	Creative Writing II	3
ENG 226	Fiction Writing	3
ENG 227	Poetry Writing	3
ENG 230	Creative Non-fiction	3
ENG 231	Literary Magazine	3
JOU 105	Introduction to Mass Media: SS3	3
JOU 106	Media News & Reporting	3
JOU 111	Principles of Advertising	3
JOU 121	Photojournalism	3
JOU 206	Intermediate Newswriting & Editing	3
JOU 215	Publications Production & Design	3
JOU 221	Newspaper Design I	3
JOU 222	Newspaper Design II	3
JOU 241	Feature & Magazine Writing	3

Arts and Humanities

ARA 111	Arabic Language I	5
ARA 112	Arabic Language II	5
ARA 211	Arabic Language III	3
ART 110	Art Appreciation: AH1	3
ART 111	Art History Ancient to Medieval: AH1	3
ART 112	Art History Renaissance to 1900: AH1	3
ART 113	History of Photography	3
ART 115	Stained Glass I	3
ART 116	Stained Glass II	3
ART 117	Fiber Design I	3
ART 121	Drawing I	3
ART 124	Watercolor I	3
ART 128	Figure Drawing I	3
ART 129	Printmaking I	3
ART 131	Visual Concepts 2-D Design	3
ART 132	Visual Concepts 3-D Design	3
ART 133	Jewelry and Metalwork I	3
ART 138	Film Photography I	3
ART 139	Digital Photography I	3
ART 142	Landscape Photography	3
ART 144	Portrait Photography	3
ART 149	Mixed Media I: Digital Arts	3
ART 150	Digital Art Foundations I	3
ART 151	Painting I	3
ART 154	Figure Painting I	3
ART 161	Ceramics I	3
ART 162	Handbuilt Clay I	3
ART 163	Handbuilt Clay II	3
ART 165	Sculpture I	3
ART 207	Art History-1900 to Present: AH1	3
ART 210	Marketing for Visual Arts	3
ART 221	Drawing II	3
ART 224	Watercolor II	3
ART 229	Printmaking II	3
ART 230	Color Theory	3
ART 233	Jewelry and Metalwork II	3
ART 238	Film Photography II	3
ART 239	Digital Photography II	3
ART 242	Alternative Photo Processes	3
ART 251	Painting II	3
ART 261	Ceramics II	3
ART 265	Sculpture II	3
ASL 121	American Sign Language I	5
ASL 122	American Sign Language II	5
CHI 111	Chinese Language I	5
DAN 105	Hip Hop Dance I	1
DAN 106	Hip Hop Dance II	1
DAN 111	Modern Dance I	1
DAN 112	Modern Dance II	2
DAN 113	Modern Dance III	2
DAN 114	Modern Dance IV	2
DAN 121	Jazz I	1
DAN 122	Jazz II	2
DAN 123	Jazz III	2
DAN 124	Jazz IV	2
DAN 125	History of Dance I: AH1	3
DAN 129	Introduction to Dance	1
DAN 130	Dance Sampler	1
DAN 131	Ballet I	1
DAN 132	Ballet II	2
DAN 133	Ballet III	2
DAN 134	Ballet IV	2
DAN 141	Ballroom Dance	1
DAN 142	Ballroom Dance II	1
DAN 143	Tap I	1
DAN 144	Tap II	1
DAN 151	Belly Dance I	1
DAN 152	Belly Dance II	1

DAN 211	Dance Composition	3	MUS 151	Ensemble I	1
DAN 221	Dance Performance I	2	MUS 152	Ensemble II	1
DAN 222	Dance Performance II	2	MUS 153	Ensemble III	1
DAN 224	Dance for Musical Theatre I	3	MUS 154	Ensemble IV	1
DAN 226	Pointe	1	MUS 210	Music Theory III	3
DAN 227	Pointe II	1	MUS 211	Music Theory IV	3
DAN 251	Belly Dance III	1	MUS 212	Advanced Ear Training/Sight Singing Lab I	1
FRE 111	French Language I	5	MUS 213	Advanced Ear Training/Sight Singing Lab II	1
FRE 112	French Language II	5	MUS 232	Music Class II	2
FRE 211	French Language III: AH4	3	MUS 233	Music Class III	2
FRE 212	French Language IV: AH4	3	MUS 234	Music Class IV	2
GER 111	German Language I	5	MUS 241	Private Instruction I	2
GER 112	German Language II	5	MUS 242	Private Instruction II	2
GER 211	German Language III: AH4	3	MUS 243	Private Instruction III	2
GER 212	German Language IV: AH4	3	MUS 244	Private Instruction IV	2
HUM 103	Introduction to Film Art: AH2	3	MUS 251	Ensemble I	1
HUM 115	World Mythology: AH2	3	MUS 252	Ensemble II	1
HUM 121	Early Civilizations: AH2	3	MUS 253	Ensemble III	1
HUM 122	Medieval to Modern: AH2	3	MUS 254	Ensemble IV	1
HUM 123	The Modern World: AH2	3	PHI 111	Introduction to Philosophy: AH3	3
HUM 131	The Arts & Cultures of Mexico	3	PHI 112	Ethics: AH3	3
HUM 163	Film Criticism	3	PHI 113	Logic: AH3	3
HUM 201	Twentieth Century American Arts	3	PHI 114	Comparative Religions: AH3	3
HUM 236	North American Indian Arts	3	PHI 115	World Religions-West: AH3	3
HUM 237	Hispanic Arts of the American Southwest	3	PHI 116	World Religions-East: AH3	3
HUM 238	Sacred Images, Sacred Spaces: Southwestern U.S.	3	PHI 142	New Testament	3
HUM 241	Asian Arts & Cultures	3	PHI 201	Social & Political Philosophy	3
ITA 111	Italian Language I	5	PHI 214	Philosophy of Religion: AH3	3
ITA 112	Italian Language II	5	PHI 218	Environmental Ethics: AH3	3
ITA 211	Italian Language III: AH4	3	PHO 205	Professional Digital Photo I	3
ITA 212	Italian Language IV: AH4	3	PHO 226	Digital Workflow Management	3
JPN 111	Japanese Language I	5	PHO 234	View Camera/Lighting Technique	3
JPN 112	Japanese Language II	5	RUS 111	Russian Language I	5
JPN 211	Japanese Language III: AH4	3	RUS 112	Russian Language II	5
JPN 212	Japanese Language IV: AH4	3	RUS 211	Russian Language III: AH4	3
LIT 115	Introduction to Literature: AH2	3	RUS 212	Russian Language IV: AH4	3
LIT 125	Study of the Short Story	3	SPA 111	Spanish Language I	5
LIT 201	World Literature to 1600: AH2	3	SPA 112	Spanish Language II	5
LIT 202	World Literature after 1600: AH2	3	SPA 211	Spanish Language III: AH4	3
LIT 205	Ethnic Literature: AH2	3	SPA 212	Spanish Language IV: AH4	3
LIT 211	American Literature to Civil War: AH2	3	THE 105	Introduction to the Theatre Arts: AH1	5
LIT 212	American Literature after the Civil War: AH2	3	THE 111	Acting I	3
LIT 221	British Literature to 1770: AH2	3	THE 112	Acting II	3
LIT 222	British Literature since 1770: AH2	3	THE 115	Stage Movement for Actors	3
LIT 235	Science Fiction	3	THE 116	Technical Theatre	3
LIT 246	Literature of Women	3	THE 126	Auditioning for Musical Theater	3
LIT 248	Native American Literature	3	THE 130	Safety, Tools & Materials	3
LIT 255	Children's Literature	3	THE 140	Stage Dialects	1
LIT 257	Literature & Film	3	THE 144	Scene Study	1
LIT 268	Celtic Literature: AH2	3	THE 204	Voice & Articulation I	2
MUS 100	Introduction to Music Theory I	3	THE 205	Voice & Articulation II	2
MUS 110	Music Theory I	3	THE 211	Development of Theatre Greek-Renaissance: AH1	3
MUS 111	Music Theory II	3	THE 212	Development of Theatre to Modern: AH1	3
MUS 112	Ear Training/Sight-singing I Lab	1	THE 213	Intermediate Acting I	3
MUS 113	Ear Training/Sight-singing II Lab	1	THE 214	Intermediate Acting II	3
MUS 120	Music Appreciation: AH1	3	THE 215	Playwriting	3
MUS 121	Music History Medieval thru Classical Period: AH1	3	THE 220	Directing I	3
MUS 122	Music History Early Romantic Period to the Present: AH1	3	THE 230	Directing II	3
MUS 125	History of Jazz: AH1	3	Mathematics		
MUS 126	History of Rock & Pop	3	MAT 120	Mathematics for the Liberal Arts: MA1	4
MUS 131	Music Class I	2	MAT 121	College Algebra: MA1	4
MUS 132	Music Class II	2	MAT 122	College Trigonometry: MA1	3
MUS 133	Music Class III	2	MAT 123	Finite Mathematics: MA1	4
MUS 134	Music Class IV	2	MAT 125	Survey of Calculus: MA1	4
MUS 141	Private Instruction I	1	MAT 135	Introduction to Statistics: MA1	3
MUS 142	Private Instruction II	1	MAT 166	Pre-Calculus: MA1	5
MUS 143	Private Instruction III	1	MAT 179	Computer Applications for Statistical Procedures	1
MUS 144	Private Instruction IV	1	MAT 201	Calculus I: MA1	5
			MAT 202	Calculus II: MA1	5

MAT 203	Calculus III: MA1	4	PSY 249	Abnormal Psychology: SS3	3
MAT 204	Calculus III w/Engineering Applications: MA1	5	PSY 265	Psychology of Personality	3
MAT 215	Discrete Mathematics: MA1	4	SOC 101	Introduction to Sociology I: SS3	3
MAT 255	Linear Algebra	3	SOC 102	Introduction to Sociology II: SS3	3
MAT 265	Differential Equations: MA1	3	SOC 201	Introduction to Gerontology	3
Social and Behavioral Sciences			SOC 205	Sociology of Family Dynamics: SS3	3
ANT 101	Cultural Anthropology: SS3	3	SOC 207	Environmental Sociology: SS3	3
ANT 103	Archaeology Laboratory: SS3	3	SOC 215	Contemporary Social Problems: SS3	3
ANT 104	Physical Anthropology Lab: SS3	3	SOC 216	Sociology of Gender: SS3	3
ANT 107	Introduction to Archaeology: SS3	3	SOC 218	Sociology of Diversity: SS3	3
ANT 211	Cultural Resource Management	3	SOC 220	Sociology of Religion: SS3	3
ANT 215	Indians of North America: SS3	3	SOC 223	Chicanos in a Changing Society	3
ANT 221	Exploring Other Cultures I	3	SOC 231	The Sociology of Deviant Behavior: SS3	3
ANT 222	Exploring Other Cultures II	3	SOC 237	Sociology of Death & Dying: SS3	3
ANT 225	Anthropology of Religion	3	WST 200	Introduction to Women's Studies: SS3	3
ANT 255	Anthropology of Energy	3	Physical and Life Sciences		
ANT 260	Sex, Gender and Culture	3	AST 101	Astronomy I with Lab: SC1	4
ANT 263	Anthropology of Folklore	3	AST 102	Astronomy II: SC1	4
CRJ 110	Introduction to Criminal Justice: SS3	3	ANT 111	Biological Anthropology w/Lab: SC1	4
ECO 201	Principles of Macroeconomics: SS1	3	BIO 104	Biology: A Human Approach: SC1	4
ECO 202	Principles of Microeconomics: SS1	3	BIO 105	Science of Biology: SC1	4
ETH 200	Introduction to Ethnic Studies: SS3	3	BIO 111	General College Biology I w/Lab: SC1	5
GEO 105	World Regional Geography: SS2	3	BIO 112	General College Biology II w/Lab: SC1	5
GEO 106	Human Geography: SS2	3	BIO 148	Basic Ecology	4
HIS 101	Western Civilization: Antiquity-1650: HI1	3	BIO 150	Animal Biology	4
HIS 102	Western Civilization: 1650-Present: HI1	3	BIO 154	Biology of Plants	4
HIS 111	The World: Antiquity-1650: HI1	3	BIO 201	Human Anatomy & Physiology I: SC1	4
HIS 112	The World: 1650-Present: HI1	3	BIO 202	Human Anatomy & Physiology II: SC1	4
HIS 121	U.S. History to Reconstruction: HI1	3	BIO 204	Microbiology: SC1	4
HIS 122	U.S. History since the Civil War: HI1	3	BIO 216	Human Pathophysiology	4
HIS 203	Civil War Era in American History: HI1	3	BIO 224	Genetics: SC1	4
HIS 205	Women in World History: HI1	3	CHE 101	Introduction to Chemistry I: SC1	5
HIS 206	U.S. Family History & Genealogy	3	CHE 102	Introduction to Chemistry II: SC1	5
HIS 207	American Environmental History: HI1	3	CHE 105	Chemistry in Context: SC1	5
HIS 208	American Indian History: HI1	3	CHE 111	General College Chemistry I: SC1	5
HIS 209	History of the American Southwest	3	CHE 112	General College Chemistry II: SC1	5
HIS 218	History of Science & Technology: HI1	3	CHE 211	Organic Chemistry I	5
HIS 215	Women in U.S. History: HI1	3	CHE 212	Organic Chemistry II	5
HIS 225	Colorado History: HI1	3	CSC 105	Computer Literacy	3
HIS 235	History of the American West: HI1	3	CSC 120	Problem Solving With (Software Package)	3
HIS 236	U.S. History Since 1945: HI1	3	CSC 126	Game Design & Development	3
HIS 241	History of the Pikes Peak Region	3	CSC 150	Visual Basic Programming: 6.0	3
HIS 243	History of Modern China: HI1	3	CSC 154	Visual Basic.Net Programming	3
HIS 244	History of Latin American: HI1	3	CSC 160	Computer Science I: (Language)	4
HIS 247	20th Century World History: HI1	3	CSC 161	Computer Science II: (Language)	4
HIS 249	History of Islamic Civilization: HI1	3	CSC 225	Computer Architecture/Assembly Language Programming	4
HIS 250	African American History: HI1	3	CSC 230	C Programming: Platform	3
HIS 255	The Middle Ages: HI1	3	CSC 240	Java Programming	4
HIS 259	Modern Middle East: HI1	3	ENV 101	Introduction to Environmental Science: SC1	4
HIS 260	U.S. Foreign Relations History: HI1	3	GEO 111	Physical Geography-Landforms: SC1	4
JOU 105	Introduction to Mass Media: SS3	3	GEO 112	Physical Geography: Weather & Climate: SC1	4
POS 105	Introduction to Political Science: SS1	3	GEY 111	Physical Geology with Lab: SC1	4
POS 111	American Government: SS1	3	GEY 112	Historical Geology with Lab: SC1	4
POS 125	American State & Local Government: SS1	3	GEY 135	Environmental Geology with Lab: SC1	3
POS 205	International Relations: SS1	3	HWE 100	Human Nutrition	3
POS 215	Current Political Issues: SS1	3	MET 150	General Meteorology: SC1	4
POS 225	Comparative Government: SS1	3	PHY 105	Conceptual Physics: SC1	4
PSY 101	General Psychology I: SS3	3	PHY 111	Physics: Algebra-Based I w/Lab: SC1	5
PSY 102	General Psychology II: SS3	3	PHY 112	Physics: Algebra-Based II w/Lab: SC1	5
PSY 106	Human Relations	3	PHY 211	Physics: Calculus-Based I w/Lab: SC1	5
PSY 112	Psychology of Adjustment	3	PHY 212	Physics: Calculus-Based II w/Lab: SC1	5
PSY 205	Psychology of Gender: SS3	3	SCI 155	Integrated Science I: SC1	4
PSY 217	Human Sexuality: SS3	3	SCI 156	Integrated Science II: SC1	4
PSY 226	Social Psychology: SS3	3	Other Approved Electives		
PSY 227	The Psychology of Death & Dying: SS3	3	EDU 221	Introduction to Education	3
PSY 235	Human Growth & Development: SS3	3	PED 102	Weight Training	1
PSY 238	Child Development: SS3	3	PED 110	Fitness Center Activity I	1
PSY 245	Educational Psychology	3	PED 111	Fitness Center Activity II	1
PSY 247	Child Abuse & Neglect	3			

PED 112	Fitness Center Activity III	1
PED 113	Fitness Center Activity IV	1
PED 122	Step Aerobics	1
PED 140	Body Sculpturing & Toning	1
PED 143	Yoga I	1
PED 144	Yoga II	1
PED 151	Walking & Jogging	1
PED 161	Tai Chi I	1
PED 162	Tai Chi II	1
PED 163	Martial Arts	1
PED 230	Volleyball	1

1 One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2 or SS3).

History

1 One guaranteed transfer course from History (HI1)

Natural and Physical Sciences

1 Seven (7) credit hours. Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Electives

1 Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ANT 101	Cultural Anthropology: SS3	3
ANT 215	Indians of North America: SS3	3
ANT 221	Exploring Other Cultures I	3
ANT 222	Exploring Other Cultures II	3
ANT 225	Anthropology of Religion	3
COM 220	Intercultural Communication: SS3	3
ETH 200	Introduction to Ethnic Studies: SS3	3
FOL	Foreign Language	5
GEO 105	World Regional Geography: SS2	3
GEO 106	Human Geography: SS2	3
HIS 208	American Indian History: HI1	3
HIS 249	History of Islamic Civilization: HI1	3
HUM 131	The Arts & Cultures of Mexico	3
HUM 236	North American Indian Arts	3
HUM 237	Hispanic Arts of the American Southwest	3
HUM 238	Sacred Images, Sacred Spaces: Southwestern U.S.	3
HUM 241	Asian Arts & Cultures	3
LIT 205	Ethnic Literature: AH2	3
LIT 248	Native American Literature	3
MUS 126	History of Rock & Pop	3
PHI 114	Comparative Religion: AH3	3
PHI 115	World Religions of the West: AH3	3
PHI 116	World Religions of the East: AH3	3
PHI 250	Eastern Wisdom	3
POS 205	International Relations: SS1	3
SOC 218	Sociology of Diversity: SS3	3
Total Credit Hours		60

Associate of Arts Degrees and Courses of Study

American Culture Studies

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092

An Ethnic Studies Emphasis will explore and compare the experiences of American ethnic groups (such as African Americans, Latino/as, Asian Americans, Native Americans, Arab Americans and European Americans) at the local and national level. This program will encourage students to think globally and reach beyond our American borders. It will also help us know more about the diverse sociocultural experiences of ethnic/ racial/ diverse minority and majority groups through the mediums of history, literature, art, culture, politics, and society in the U.S. and global contexts.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Oral Communication

Three (3) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 220	Intercultural Communication: SS3	(3)

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be applied to the electives category). Full list of requirements can be found on page 42.

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4).

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2, SS3).

Anthropology

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

Anthropology imparts a global, comparative, and historical (evolutionary) approach to human studies. Its subject is cultural diversity and biological variation among humans both contemporary and ancient. It seeks to answer who we are, where we come from, what is learned, and what is instinctual. Anthropology is divided into two major categories: cultural and physical. Cultural anthropology tests the accuracy of beliefs about human behavior. Physical anthropology seeks accuracy of beliefs about human biological nature and development. Specializations in anthropology include archeology, linguistics, cultural resource management, forensics, paleontology, medical anthropology, and counseling among others. In any professional career, it is increasingly important to have a concrete understanding of human behavior in a cultural context. Anthropology offers that understanding.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Four (4) credit hours minimum. Full list of requirements can be found on page 42.

MAT 121	College Algebra: MA1	4
---------	----------------------	---

Arts and Humanities

Six (6) credit hours gtPathways Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212	
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268	
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*	
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212	

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 235, HIS 225, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260	
---------	---	--

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral Sciences courses from two different areas (SS1, SS2, SS3)

Suggested Courses

ECO 201	Principles of Macroeconomics: SS1	3
ECO 202	Principles of Microeconomics: SS1	3

Natural and Physical Sciences

Eight (8) credit hours gtPathways Natural and Physical Sciences courses (SC1)

GT-SC1:	AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156	
---------	---	--

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional Required Courses

Twenty-one (21) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 220	Intercultural Communication: SS3	(3)
ANT 101	Cultural Anthropology: SS3	3
ANT 107	Introduction to Archaeology: SS3	3
ANT 111	Biological Anthropology with Lab: SC1	4
One (1) gtPathways Arts & Humanities course (AH1, AH2, AH3 or AH4)		3

One (1) gtPathways ANT course in Social & Behavioral Sciences (SS3) 3

One (1) gtPathways Social & Behavioral Sciences (SS2 or SS3) 3

Electives

Six (6) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ANT 101	Cultural Anthropology: SS3	3
ANT 103	Archaeology Laboratory: SS3	3
ANT 107	Introduction to Archaeology: SS3	3
ANT 111	Biological Anthropology with Lab: SC1	4
ANT 201	Introduction to Forensic Anthropology: SS3	3
ANT 211	Cultural Resource	3
ANT 215	Indians of North America: SS3	3
ANT 218	Archaeology of the Bible	3
ANT 221	Exploring Other Cultures I	3
ANT 222	Exploring Other Cultures II	3
ANT 280	Southwest Field Exploration	2
ECO 201	Principles of Macroeconomics: SS1	3
GEO 105	World Regional Geography: SS2	3
POS 105	Introduction to Political Science: SS1	3
PSY 101	General Psychology I: SS3	3
PSY 102	General Psychology II: SS3	3
SOC 101	Introduction to Sociology I: SS3	3
SOC 102	Introduction to Sociology II: SS3	3

Total Credit Hours 60**Art History****Associate of Arts Degree with Designation**

Recommended basic skills standards are

- CCR 092

The Associate of Art degree in Art History is designed for students intending to transfer to a four-year university or college to pursue a Bachelor's degree in Art History. Students completing the following 60 credit hours will start as an entering junior at the four-year school.

Students will learn how to interpret different cultures throughout history by studying the various artworks created. They will learn how to analyze works of art as well as the universal language of art and its definitions.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Three-four (3-4) credit hours

GT-MA1:	MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265	
---------	---	--

Arts and Humanities

Six (6) credit hours gtPathways Arts and Humanities courses (AH1, AH2, AH3 or AH4)

- GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
- GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
- GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*
- GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History (HI1)

- GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral Sciences courses from (SS1, SS2 or SS3)

- GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 215, POS 225
- GT-SS2: GEO 105, GEO 106
- GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven-eight (7-8) credit hours gtPathways Natural & Physical Sciences courses from (SC1, SC2). One of these courses must have the required laboratory (SC1).

- GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156
- GT-SC2: AST 155*, GEY 108

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional Required Courses

Eighteen (18) credit hours

- | | | |
|---------|--------------------------------------|---|
| ART 111 | Art History Ancient to Medieval: AH1 | 3 |
| ART 112 | Art History Renaissance to 1900: AH1 | 3 |
| ART 121 | Drawing I | 3 |
| ART 131 | Visual Concepts 2-D Design | 3 |
| ART 132 | Visual Concepts 3-D Design | 3 |
| ART 207 | Art History – 1900 to Present: AH1 | 3 |

Electives

Nine-eleven (9-11) credit hours selected from the AA approved course list can be found on page 43.

Total Credit Hours 60

Art/Fine Art Photography**Associate of Arts Course of Study**

Recommended basic skills standards are

- CCR 092

The human being is a creative animal. The fountainhead of creativity lies in the imagination, which manifests itself in the projection of images. Art, then, is the language in images by which man communicates ideas and concepts of the self, others, and the universe. This program is designed to allow students to discover and develop themselves and their creativity in such mediums as drawing, painting, watercolor, and ceramics.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

- | | | |
|-----------------|-----------------------------|---|
| GT-CO1: ENG 121 | English Composition I: CO1 | 3 |
| and | | |
| GT-CO2: ENG 122 | English Composition II: CO2 | 3 |

OR

- | | | |
|-----------------|------------------------------|-----|
| GT-CO2: ENG 122 | English Composition II: CO2 | (3) |
| and | | |
| GT-CO3: ENG 201 | English Composition III: CO3 | (3) |

Oral Communication

Three (3) credit hours

- | | | |
|---------|----------------------------------|-----|
| COM 115 | Public Speaking | 3 |
| or | | |
| COM 125 | Interpersonal Communication | (3) |
| or | | |
| COM 220 | Intercultural Communication: SS3 | (3) |

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be applied to the electives category). Full list of requirements can be found on page 42.

Suggested Courses

- | | | |
|---------|---------------------------------------|---|
| MAT 120 | Mathematics for the Liberal Arts: MA1 | 4 |
|---------|---------------------------------------|---|

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2 or SS3)

One guaranteed transfer course from History (HI1)

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2 or SS3)

Suggested Courses

- | | | |
|-------------------|--------------------------------------|-----|
| GT-AH1 choose two | | |
| ART 111 | Art History Ancient to Medieval: AH1 | 3 |
| ART 112 | Art History Renaissance to 1900: AH1 | 3 |
| ART 207 | Art History: 1900 to Present: AH1 | 3 |
| GT-AH3 | | |
| PHI 112 | Ethics: AH3 | 3 |
| or | | |
| PHI 113 | Logic: AH3 | (3) |

Natural and Physical Sciences

Seven (7) credit hours. Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Suggested Courses

AST 101	Astronomy I with Lab: SC1	4
GEY 111	Physical Geology with Lab: SC1	4

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ART 121	Drawing I	3
ART 221	Drawing II	3
or		
ART 128	Figure Drawing I	(3)
ART 131	Visual Concepts 2-D Design	3
ART 132	Visual Concepts 3-D Design	3
ART 230	Color Theory	3

Total Credit Hours 60

Business Transfer

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092
- MAT 055

The Associate of Arts Business Option is the result of a State wide articulation agreement between the Colorado Community College System and the four-year colleges and universities. Students completing the following 60 hours will transfer in 100 percent of their classes and start as an entering junior at the four-year school. Please consult with your faculty advisor for the proper sequence of classes.

Courses marked with an asterisk [] are not currently offered at PPCC.*

State Articulated Track

Communications

Nine (9) credit hours

COM 115	Public Speaking	3
ENG 121	English Composition I: CO1	3
ENG 122	English Composition II: CO2	3

Mathematics

Eight (8) credit hours

MAT 121	College Algebra: MA1	4
or		
MAT 123	Finite Mathematics: MA1	(4)
MAT 125	Survey of Calculus: MA1	4

Arts and Humanities

Six (6) credit hours: select two state guaranteed courses (AH1, AH2, AH3, AH4). Full list of requirements can be found on page 42.

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

Social and Behavioral Sciences

Nine (9) credit hours. Full list of requirements can be found on page 42.

ECO 201	Principles of Macroeconomics: SS1	3
ECO 202	Principles of Microeconomics: SS1	3

History

Three (3) credit hours. One state guaranteed History course. Full list of requirements can be found on page 42.

Natural and Physical Sciences

Eight (8) credit hours: select two (2) courses (credits over eight [8] will be applied to the electives category). Full list of requirements can be found on page 42.

Business Requirements

ACC 121	Accounting Principles I	4
ACC 122	Accounting Principles II	4
BUS 115	Introduction to Business	3
BUS 216	Legal Environment of Business	3
BUS 217	Business Communication & Report Writing	3
BUS 226	Business Statistics	3

Total Credit Hours 60

Communication

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

The Communication program is focused on helping our students develop many different communication skills. Students take classes that guide them in developing effective verbal and nonverbal behaviors for public speaking, group participation, work-related projects and presentations, and interpersonal communication. Employment possibilities include the following areas: business, customer service and support, government, education, law, corporate communication/training, radio and television, sales, personnel, entertainment, and religious leadership.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Three (3) credit hours gtPathways Mathematics course (MA1), but not MAT 155 or MAT 156.

GT-MA1:	MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265
---------	---

Arts and Humanities

Six (6) credit hours gtPathways Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
---------	---

- GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
- GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*
- GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212

History

Three (3) credit hours gtPathways History course (HI1)

- GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Three (3) credit hours

- COM 220 Intercultural Communication: SS3 3
- One gtPathways course from (SS1, SS2 or SS3)
- GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 225
- GT-SS2: GEO 105, GEO 106
- GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven (7) credit hours gtPathways Natural and Physical Sciences courses (SC1); one course must be with the required laboratory.

- GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional Required Courses

Eighteen (18) credit hours

- COM 115 Public Speaking 3
- COM 125 Interpersonal Communication 3
- COM 217 Group Communication 3

Choose two (2) gtPathways courses from History (HI1) or Social & Behavioral Sciences (SS1, SS2 or SS3)

Choose one (1) three-credit course with a COM prefix.

Electives

Eleven (11) credit hours selected from the AA approved course list can be found on page 43.

Total Credit Hours 60

Criminal Justice

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092
- MAT 055

The Associate of Arts in Criminal Justice is designed for students intending to transfer to a four year school and pursue a Bachelor's degree in Criminal Justice. The Statewide Transfer Agreement will allow students to transfer to a Colorado public four year school and complete their degree with an additional 60 credit hours. *Courses marked with an asterisk [*] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

- GT-CO1: ENG 121 English Composition I: CO1 3
and
GT-CO2: ENG 122 English Composition II: CO2 3

OR

- GT-CO2: ENG 122 English Composition II: CO2 (3)
and
GT-CO3: ENG 201 English Composition III: CO3 (3)

Mathematics

Four (4) credit hours

- MAT 121 College Algebra: MA1 4

Arts and Humanities

Six (6) credit hours gtPathways Arts and Humanities courses from two (2) different categories from the list below (AH1, AH2, AH3 or AH4)

- GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
- GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
- GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 214, PHI 218, PHI 220*
- GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

- GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Six (6) credit hours

- SOC 101 Introduction to Sociology I: SS3 3
- One additional gtPathways Social and Behavioral Sciences course (SS3)
- GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Eight (8) credit hours gtPathways Natural and Physical Sciences courses including at least one (1) lab course (SC1, SC2)

- GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156
- GT-SC2: AST 155*, GEY 108

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional required courses

Twenty-seven (27) credit hours

- | | | |
|---|---|-----|
| COM 115 | Public Speaking | 3 |
| or | | |
| COM 125 | Interpersonal Communication | (3) |
| CRJ 110 | Introduction to Criminal Justice System: SS3 | 3 |
| CRJ 125 | Policing Systems | 3 |
| CRJ 145 | Correctional Process | 3 |
| Choose two (2) courses from the following | | |
| CRJ 127 | Crime Scene Investigation | 3 |
| CRJ 135 | Judicial Functions | 3 |
| CRJ 205 | Principles of Criminal Law | 3 |
| CRJ 209 | Criminal Investigations | 3 |
| CRJ 230 | Criminology | 3 |
| CRJ 231 | Introduction to Forensic Science & Criminalistics | 3 |
| CRJ 235 | Delinquent Behavior* | 3 |
| CRJ 236 | Criminal Justice Research Methods* | 3 |
| CRJ 257 | Victimology | 3 |
| CRJ 268 | Criminal Profiling | 3 |

Choose three (3) courses from the following

- | | | |
|----------|---------------------------------------|---|
| ANT 201 | Introduction to Forensic Anthropology | 3 |
| CNG 258 | Computer Forensics | 3 |
| COM 217 | Group Communication | 3 |
| COM 225 | Organizational Communications | 3 |
| POS 111 | American Government: SS1 | 3 |
| POS 125 | American State and Local Government | 3 |
| PSY 207* | Introduction to Forensic Psychology* | 3 |
| PSY 217 | Human Sexuality | 3 |
| PSY 226 | Social Psychology | 3 |
| PSY 249 | Abnormal Psychology | 3 |
| SOC 231 | Sociology of Deviant Behavior | 3 |

Total Credit Hours 60

Dance

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092
- MAT 050

The Dance Program at Pikes Peak Community College is dedicated to creating a well-rounded dance artist who is capable of pursuing a plethora of diverse paths. We recognize that every person that enters our program is an individual who has different desires, needs, concerns and goals. We are here to aid on this journey. The program strives to help each student develop, strengthen and further advance technique in a variety of different dance genres, as well as develop critical thinking skills through creative and scholarly processes. We believe that the understanding of the body and the way it moves is a way of knowledge and wisdom that can teach all people (not just dancers) about society, culture, and history. Students will discover how to work within groups and how to express their own

individuality and may study dance for enrichment, fitness, and/or to complete an AA degree with an emphasis in dance.

Courses marked with an asterisk [] are not currently offered at PCC.*

Written Communication

Six (6) credit hours

- | | | |
|-----------------|-----------------------------|---|
| GT-CO1: ENG 121 | English Composition I: CO1 | 3 |
| and | | |
| GT-CO2: ENG 122 | English Composition II: CO2 | 3 |

OR

- | | | |
|-----------------|------------------------------|-----|
| GT-CO2: ENG 122 | English Composition II: CO2 | (3) |
| and | | |
| GT-CO3: ENG 201 | English Composition III: CO3 | (3) |

Oral Communication

Three (3) credit hours

- | | | |
|---------|----------------------------------|-----|
| COM 115 | Public Speaking | 3 |
| or | | |
| COM 125 | Interpersonal Communication | (3) |
| or | | |
| COM 220 | Intercultural Communication: SS3 | (3) |

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be

applied to the electives category). Full list of requirements can be found on page 42.

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4).

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2 or SS3).

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2 or SS3).

Suggested Courses

- | | | |
|---------|---|---|
| GT-AH1 | | |
| DAN 125 | History of Dance I: AH1 | 3 |
| MUS 120 | Music Appreciation: AH1 | 3 |
| MUS 121 | Music History Medieval thru Classical Period: AH1 | 3 |
| MUS 122 | Music History Early Romantic Period to the Present: AH1 | 3 |

GT-AH2

- | | | |
|---------|-------------------------|---|
| HUM 122 | Medieval to Modern: AH2 | 3 |
| HUM 123 | The Modern World: AH2 | 3 |

GT-AH3

- | | | |
|---------|---------------------------------|---|
| PHI 111 | Introduction to Philosophy: AH3 | 3 |
| PHI 112 | Ethics: AH3 | 3 |

History

One gtPathways History course (HI1)

- | | | |
|---------|---|--|
| GT-HI1: | HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260 | |
|---------|---|--|

Natural and Physical Sciences

Seven (7) credit hours. Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Suggested Courses

- | | | |
|---------|---------------------------------------|---|
| BIO 111 | General College Biology I w/Lab: SC1 | 5 |
| BIO 112 | General College Biology II w/Lab: SC1 | 5 |

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

DAN 111	Modern Dance I	1
DAN 112	Modern Dance II	2
DAN 113	Modern Dance III	2
DAN 121	Jazz I	1
DAN 122	Jazz II	2
DAN 123	Jazz III	2
DAN 131	Ballet I	1
DAN 132	Ballet II	2
DAN 133	Ballet III	2
DAN 141	Ballroom Dance I	1
DAN 151	Belly Dance I	1
DAN 152	Belly Dance II	1
DAN 211	Dance Composition	3
DAN 221	Dance Performance I	2
MUS 100	Fundamentals of Music	3
Total Credit Hours		60

Early Childhood Education Teacher Preparation

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092
- MAT 050

The Associate of Arts Early Childhood [Teacher] Education option is the result of a State wide articulation agreement between the Colorado Community College System and the four-year colleges and universities. Students completing the following 60 hours will transfer in 100% of their classes and start as an entering junior at the following four-year schools: Adams State, Colorado Mesa University, Colorado State University, Fort Lewis College, Metropolitan State University and University of Northern Colorado. Please consult with your faculty advisor for the proper sequence of classes.

All students registered for ECE classes, both lecture-based and practicum-based courses, must submit to a criminal background check the first semester of enrollment. This process is completed on-line through the PPCC Human Resources Department, with an associated cost for the background check service. Further instructions are available on the ECE home page and will be provided the first day of class.

Courses marked with an asterisk [] are not currently offered at PPCC.*

State Articulated Track**English**

Six (6) credit hours

ENG 121	English Composition I: CO1	3
ENG 122	English Composition II: CO2	3

Arts and Humanities

Six (6) credit hours

ART 110	Art Appreciation: AH1	3
MUS 120	Music Appreciation: AH1	3
LIT 115	Introduction to Literature: AH2	3
LIT 255	Children's Literature	3

Mathematics

Six (6) credit hours. Choose one track below.

Track 1

MAT 120	Mathematics for the Liberal Arts: MA1	4
or		
MAT 121	College Algebra: MA1	(4)
MAT 135	Introduction to Statistics: MA1	3

Track 2

MAT 155	Integrated Mathematics I	3
MAT 156	Integrated Mathematics II	3

Social and Behavioral Sciences

Nine (9) credit hours

GEO 105	World Regional Geography: SS2	3
HIS 121	U.S. History to Reconstruction: HI1	3
POS 111	American Government: SS1	3

Natural and Physical Sciences

Eight (8) credit hours

SCI 155	Integrated Science I: SC1	4
SCI 156	Integrated Science II: SC1	4

Early Childhood Requirements

Nineteen (19) credit hours

COM 115	Public Speaking	3
ECE 101	Introduction to Early Childhood Education	3
ECE 102	Intro to Early Childhood Education Lab Techniques	3
ECE 205	Nutrition, Health & Safety	3
ECE 238	Child Growth & Development	3
ECE 241	Administration: Human Relations for Early Childhood Education	3
ECE 188*	Practicum	1
or		
ECE 209	Observing & Utilizing Young Children's Assessment Instruments	(1)
or		
ECE 236*	Child Growth/Development Laboratory	(1)

Electives

Six (6) credit hours to be determined by home and transfer institution

Total Credit Hours **60**

Economics

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092
- MAT 055

The Associate of Arts in Economics is designed for students intending to transfer to a four year school and pursue a Bachelor's degree in Economics. The Statewide Transfer Agreement will allow students to transfer to a Colorado public four year school and complete their degree with an additional 60 credit hours.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

ENG 121	English Composition I: CO1	3
ENG 122	English Composition II: CO2	3

Mathematics

Five (5) credit hours.

MAT 201	Calculus I: MA1	5
---------	-----------------	---

Arts and Humanities

Nine (9) credit hours gtPathways Arts and Humanities courses (AH1, AH2, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212	
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268	
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*	
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212	

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260	
---------	---	--

Social and Behavioral Sciences

Six (6) credit hours

ECO 201	Principles of Macroeconomics: SS1	3
ECO 202	Principles of Microeconomics: SS1	3

Natural and Physical Sciences

Eight (8) credit hours gtPathways Natural and Physical Sciences courses including at least one (1) lab course (SC1, SC2).

GT-SC1:	AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156	
GT-SC2:	AST 155*, GEY 108	

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional required courses

Three (3) credit hours

MAT 135	Introduction to Statistics MA1	3
---------	--------------------------------	---

Electives

Twenty (20) credit hours selected from the AA approved course list can be found on page 43.

Total Credit Hours		60
---------------------------	--	-----------

Elementary Education [Teacher] Preparation

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092
- MAT 055

Elementary Education Teacher Preparation allows students to complete a transferable associate of arts degree preparing them for transfer to a four-year college or university in Colorado where they can complete their Bachelor's degree and teaching credential in two additional years. Students identify a major and transfer institution prior to enrolling for courses and must meet with their faculty advisor before registering for classes to insure transferability of courses to their chosen institution/major.

State Articulated Track**Communications**

Nine (9) credit hours

COM 115	Public Speaking	3
ENG 121	English Composition I: CO1	3
ENG 122	English Composition II: CO2	3

Mathematics

Six (6) credit hours

MAT 155	Integrated Mathematics I	3
MAT 156	Integrated Mathematics II	3

Arts and Humanities

Three (3) credit hours

LIT 115	Introduction to Literature: AH2	3
or		
LIT 201	World Literature to 1600: AH2	(3)
or		
LIT 202	World Literature after 1600: AH2	(3)
or		
LIT 211	American Literature to Civil War: AH2	(3)
or		
LIT 221	British Literature to 1770: AH2	(3)

Social and Behavioral Sciences

Nine (9) credit hours

GEO 105	World Regional Geography: SS2	3
HIS 121	U.S. History to Reconstruction: HI1	3
POS 111	American Government: SS1	3

Natural and Physical Sciences

Eight (8) credit hours

SCI 155	Integrated Science I: SC1	4
SCI 156	Integrated Science II: SC1	4

Education Requirements

Six (6) credit hours

EDU 221	Introduction to Education	3
PSY 238	Child Development: SS3	3

Electives

Nineteen (19) credit hours to be determined by discipline and transfer institution.

Total Credit Hours		60
---------------------------	--	-----------

English (Literature Emphasis)

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

To major in English in the new millennium is to do more than select a profession; it is to identify one's vocation. Whether students decide someday to specialize in rhetoric and composition, literary criticism, or creative writing, or to become journalists, songwriters, screenwriters, or teachers of English, they will learn to promote literacy and thoughtful dissent in contemporary society. They will learn that connections between life and literature are basic to living in and understanding a complex global community.

English majors interested in education, literature, or professional writing should contact their four-year transfer institution for recommendations concerning elective courses. Students can select an English AA course of study in Literature, Professional Writing & Communication or a combination of both.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Three (3) credit hours gtPathways Mathematics course, but not MAT 155 or MAT 156

Suggested Course

MAT 120	Mathematics for the Liberal Arts: MA1	4
---------	---------------------------------------	---

Arts and Humanities

Nine (9) credit hours gtPathways Arts & Humanities courses (AH1, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260
---------	---

Social and Behavioral Sciences

Six (6) gtPathways Social and Behavioral Sciences courses (SS1, SS2, SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 215, POS 225
GT-SS2:	GEO 105, GEO 106
GT-SS3:	AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven (7) credit hours gtPathways Natural and Physical Sciences courses (SC1, SC2). One of these courses must have the required laboratory (SC1).

GT-SC1:	AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156
GT-SC2	AST 155*, GEY 108

Additional Required Courses

Eighteen (18) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 225	Organizational Communication	(3)

Fifteen (15) credit hours gtPathways Art and Humanities courses (AH2). Twelve (12) credit hours gtPathways Art and Humanities courses (AH2) must be at the 200-level.

GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
---------	---

Electives

Eight (8) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ENG 221	Creative Writing I	3
---------	--------------------	---

Total Credit Hours**60**

Environmental Studies

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092

Environmental Studies is an interdisciplinary program intended to provide liberal and practical education in the science and culture of critical, contemporary environmental issues. This track includes courses from over fifteen different departments. Most environmental studies track courses are incorporated into already existing tracks in math and sciences, the humanities, and social sciences. This program is composed of required common curriculum and some specially designed courses, introducing students to the basics of those physical, natural, and social sciences related to the environment and to human interaction within the natural world.

Courses marked with an asterisk [] are not currently offered at PPEC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Oral Communication

Three (3) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 220	Intercultural Communication: SS3	(3)

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be applied to the electives category). Full list of requirements can be found on page 42.

Suggested Courses

MAT 120	Mathematics for the Liberal Arts: MA1	4
MAT 121	College Algebra: MA1	4
MAT 125	Survey of Calculus: MA1	4
MAT 135	Introduction to Statistics: MA1	3
MAT 201	Calculus I: MA1	5

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2 or SS3)

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2 or SS3)

Suggested Courses

GT-AH1		
ART 110	Art Appreciation: AH1	3
ART 111	Art History Ancient to Medieval: AH1	3
ART 112	Art History Renaissance to 1900: AH1	3
MUS 120	Music Appreciation: AH1	3
GT-AH2		
LIT 115	Introduction to Literature: AH2	3
GT-AH3		
PHI 111	Introduction to Philosophy: AH3	3
PHI 112	Ethics: AH3	3
GT-SS1		
POS 105	Introduction to Political Science: SS1	3
GT-SS2		
GEO 105	World Regional Geography: SS2	3
GT-SS3		
ANT 101	Cultural Anthropology: SS3	3
ANT 107	Introduction to Archaeology: SS3	3
ANT 111	Physical Anthropology: SS3	3

History

One guaranteed transfer course from History (HI1)

GT-HI1		
HIS 121	U.S. History to Reconstruction: HI1	3
HIS 122	U.S. History since the Civil War: HI1	3
HIS 208	American Indian History: HI1	3
HIS 225	Colorado History: HI1	3

Natural and Physical Sciences

Seven (7) credit hours. Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Suggested Courses

BIO 105	Science of Biology: SC1	4
BIO 111	General College Biology I w/Lab: SC1	5
BIO 112	General College Biology II w/Lab: SC1	5
CHE 101	Introduction to Chemistry I: SC1	5
GEY 111	Physical Geology with Lab: SC1	4
GEY 112	Historical Geology with Lab: SC1	4
GEY 135	Environmental Geology with Lab: SC1	4
PHY 111	Physics: Algebra-Based I w/Lab: SC1	5
PHY 112	Physics: Algebra-Based II w/Lab: SC1	5
PHY 211	Physics: Calculus-Based I w/Lab: SC1	5

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ANT 101	Cultural Anthropology: SS2	3
ANT 107	Introduction to Archaeology: SS3	3
ANT 111	Biological Anthropology w/Lab: SC1	3
ANT 211	Cultural Resource Management	3
ANT 215	Indians of North America: SS3	3
ANT 218	Archaeology of the Bible	3
ANT 221	Exploring Other Cultures I	3
ANT 222	Exploring Other Cultures II	3
ANT 280	Southwest Field Exploration	2
ART 121	Drawing I	3
BIO 148	Basic Ecology	4
BIO 149	Plant Taxonomy	4
BIO 150	Animal Biology	4
BIO 204	Microbiology: SC1	4
COM 214	Natural Resource Interpretation Communication	3
GEO 111	Physical Geography-Landforms: SC1	4
HIS 207	American Environmental History: HI1	3
HIS 209	History of the American Southwest	3
HIS 235	History of the American West: HI1	3
HIS 241	History of the Pikes Peak Region	3
JOU 121	Photojournalism	3
LIT 211	American Literature to Civil War: AH2	3
LIT 212	American Literature After the Civil War: AH2	3
POS 125	American State and Local Government: SS1	3
Total Credit Hours		60

Foreign Language

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092

PPCC's foreign language programs are built around the standards put forth by the American Council on the Teaching of Foreign Languages (ACTFL). The goals of those standards are that students communicate with others in the language they are studying, both in and outside the classroom; that they learn about and experience the cultures of other languages; that they make connections between the language they are learning and other disciplines; that they make comparisons between their native language and culture and the language and culture they are learning; and that they become active in communities of speakers of the language they are learning. Foreign language study is compatible with study in all other disciplines, especially law enforcement, health professions, education, social and behavioral sciences, business, journalism, and art history.

Students may need to contact a Foreign Language instructor in order to be placed into the correct level of that given language.

Students considering a major in a foreign language should be aware that first-year language courses do not count toward credit-hour requirements for a major or minor in most four-year institutions.

There is a national equivalency test that can be located on the internet. It is the College Level Examination Program, C.L.E.P. It is currently available in French, Spanish and German. This test costs a small amount of money, but it offers the student a chance to test out of the language 111 and 112 courses for up to ten hours of college credit.

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Oral Communication

Three (3) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 220	Intercultural Communication: SS3	(3)

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be applied to the electives category). Full list of requirements can be found on page 42.

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2 or SS3)

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2 or SS3)

GT-AH4

FOL 211	Foreign Language III ¹	3
FOL 212	Foreign Language IV ¹	3

History

One guaranteed transfer non-U.S. History course from History (HI1).

Natural and Physical Sciences

Seven (7) credit hours. Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Ten (10) credit hours

FOL 111	Foreign Language I ¹	5
FOL 112	Foreign Language II ¹	5

Thirteen (13) credit hours selected from the AA approved course list can be found on page 42. Suggested courses include 200-level FOL courses and courses outside the chosen FOL department with content related to the FOL-speaking world.

Total Credit Hours 60

¹FOL is a standard course prefix. Each specific foreign language has its own prefix, for example, SPA = Spanish.

French**Associate of Arts Degree with Designation**

Recommended basic skills standards are

- CCR 092

PPCC's foreign language programs are built around the standards put forth by the American Council on the Teaching of Foreign Languages (ACTFL). The goals of those standards are that students communicate with others in the language they are studying, both in and outside the classroom; that they learn about and experience the cultures of other languages; that they make connections between the language they are learning and other disciplines; that they make comparisons between their native language and culture and the language and culture they are learning; and that they become active in communities of speakers of the language they are learning. Foreign language study is compatible with study in many other disciplines.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Three (3) credit hours gtPathways Mathematics course (MA1), but not MAT 155 or MAT 156

GT-MA1:	MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265
---------	---

Arts and Humanities

Nine (9) credit hours

FRE 211	French Language III: AH4	3
FRE 212	French Language IV: AH4	3

One additional guaranteed transfer courses from the list below (AH1, AH2 or AH3).

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260
---------	---

Social and Behavioral Sciences

Three (3) credit hours gtPathways Social and Behavioral course SS1, SS2 or SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 225
---------	---

GT-SS2: GEO 105, GEO 106
 GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven (7) credit hours gtPathways Natural and Physical Sciences courses including at least one (1) lab course (SC1, SC2).

GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156
 GT-SC2 AST 155*, GEY 108

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional Required Courses

Ten (10) credit hours

FRE 111 French Language I 5
 FRE 112 French Language II 5

FRE 111 and/or FRE 112 may be waived, based on a student's proficiency level.

Electives

Nineteen (19) credit hours selected from the AA approved course list can be found on page 43. Suggested courses include 200-level French courses and courses outside the Foreign Language department with content relating to the French-speaking world.

Total Credit Hours 60

Geography

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092
- MAT 055

Geography means, from its Greek origin, "to describe the earth." It is the scientific description, analysis, and explanation of spatial variations of the earth, answering questions of location and place. Geography is divided into two major fields: physical and cultural. Physical geography describes all phenomena of land, sea, and air at the surface of the earth. It focuses on processes that influence surface events, involving energy systems and environmental subsystems and materials. Cultural geography is the scientific study of the human-land relationship. It explores how humans impact the land, sea, and air and how they are influenced by the same. A background in geography lends itself to many professional fields including cartography, natural resource conservation, remote sensing and satellite imagery, geology, GIS (Geographic Information Systems), economics, community planning, historic preservation and resource analysis, and meteorology.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1 3
 and
 GT-CO2: ENG 122 English Composition II: CO2 3

OR

GT-CO2: ENG 122 English Composition II: CO2 (3)
 and
 GT-CO3: ENG 201 English Composition III: CO3 (3)

Mathematics

Three or four (3-4) credit hours gtPathways Mathematics course (MA1).

MAT 121 College Algebra: MA1 4
 or
 MAT 135 Introduction to Statistics: MA1 (3)

Arts and Humanities

Six (6) credit hours gtPathways Arts and Humanities courses (AH1, AH2 or AH3)

GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
 GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
 GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*

History

Three (3) credit hours gtPathways History courses (HI1)

GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social and Behavioral courses (SS1 or SS3)

GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 215, POS 225
 GT-SS3: AGR 260*, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Eight (8) credit hours gtPathways Natural and Physical Sciences courses (SC1). No GEO-prefix science courses; GEY 111 Physical Geology: SC1 not recommended.

GT-SC1: AGY 240, ANT 101, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156

Additional Required Courses

GEO 105	World Regional Geography: SS2	3
GEO 106	Human Geography: SS2	3
GEO 111	Physical Geography-Landforms: SC1	4
GEO 112	Physical Geography-Weather & Climate: SC1	4

Electives

Thirteen-fourteen (13-14) credit hours selected from the AA approved course list can be found on page 43. Maximum of six (6) credit hours may be in GEO or GIS prefix.

Total Credit Hours 60

History

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

History is collecting and analyzing the record of what past life was like, why events occurred, and how those events led to later and present circumstances. Historians may specialize in particular time periods; communities, states, countries, or regions; aspects of life such as society, politics, economics, the military, diplomacy, science, and culture; or groups in society such as farmers and workers, women and families, or racial and ethnic minorities. Careers for historians include teaching, research, and writing; law, politics, and government; and applied or public history such as historical editing and publishing, interpreting in museums and management at historic sites, archival records collection analysis, and historical consulting for public and private agencies. Without understanding our past, how can we hope to comprehend the present, let alone the future?

Students may follow the degree with designation in History or transfer guide in History to a particular four-year college/university. Consult your Faculty Advisor to assist you in determining the best pathway for you.

Courses marked with an asterisk [] are not currently offered at PCCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1 3

and

GT-CO2: ENG 122 English Composition II: CO2 3

OR

GT-CO2: ENG 122 English Composition II: CO2 (3)

and

GT-CO3: ENG 201 English Composition III: CO3 (3)

Mathematics

Three (3) credit hours

One (1) guaranteed transfer Mathematics course (MA1), but not MAT 155 or MAT 156.

GT-MA1: MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265

Arts and Humanities

Nine (9) credit hours gtPathways Arts and Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212

GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268

GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*

GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

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

History

Three (3) credit hours gtPathways History course (HI1)

HIS 101 Western Civilization:Antiquity-1650: HI1 3

or

HIS 111 The World: Antiquity-1500: HI1 (3)

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

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social and Behavioral Sciences courses (SS1, SS2 or SS3)

GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 215, POS 225

GT-SS2: GEO 105, GEO 106

GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven (7) credit hours gtPathways Natural and Physical Sciences courses including at least one (1) lab course (SC1, SC2).

GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156

GT-SC2 AST 155*, GEY 108

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional Required Courses

Fifteen (15) credit hours

COM 115 Public Speaking 3

or

COM 125 Interpersonal Communication (3)

HIS 102 Western Civilization:1650-Present: HI1 3

or

HIS 112 The World: 1500-Present: HI1 (3)

HIS 121 U.S. History to Reconstruction: HI1 3

HIS 122 U.S. History since the Civil War: HI1 3

One (1) additional GT-HI1 History course from list below 3

GT-HI1: HIS 101, HIS 102, HIS 203, HIS 205, HIS 111, HIS 112, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Electives

Eleven (11) credit hours selected from the AA approved course list can be found on page 43.

Total Credit Hours 60

Humanities

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092

Humanities is the study of human beings through their creations. Students study paintings, sculpture, architecture, music, literature, and philosophy to discover the nature of humankind and the values held by those living during a particular historical period. Students learn to look at the concerns of other cultures and to reassess their own values. Humanities majors may later specialize in any of the fine arts, literature, and philosophy or in the history of the arts of a particular period or country. Survey courses include the study of the arts of Asia, Africa, Latin America, and ethnic American groups.

Students not meeting a course prerequisite must have instructor permission to enroll.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Oral Communication

Three (3) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 220	Intercultural Communication: SS3	(3)

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be applied to the electives category). Full list of requirements can be found on page 42.

Suggested Courses

MAT 120	Mathematics for the Liberal Arts: MA1	4
MAT 121	College Algebra: MA1	4
MAT 135	Introduction to Statistics: MA1	3

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2 or SS3)

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2 or SS3)

Suggested Courses

GT-AH2		
HUM 115	World Mythology: AH2	3
HUM 121	Early Civilizations: AH2	3
HUM 122	Medieval to Modern: AH2	3
HUM 123	The Modern World: AH2	3
GT-AH3		
PHI 111	Introduction to Philosophy: AH3	3

History

One guaranteed transfer course from History (HI1)

Natural and Physical Sciences

Seven (7) credit hours. Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ANT 101	Cultural Anthropology: SS3	3
DAN 111	Modern Dance I	1
DAN 125	History of Dance I: AH1	3
DAN 131	Ballet I	1
HUM 131	The Arts & Cultures of Mexico	3
HUM 236	North American Indian Arts	3
HUM 238	Sacred Images, Sacred Places: Southwestern U.S.	3
LIT 115	Introduction to Literature: AH2	3
LIT 201	World Literature to 1600: AH2	3
LIT 205	Ethnic Literature: AH2	3
PED 143	Yoga	1
PED 161	Tai Chi I	1
Total Credit Hours		60

Journalism

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092
- MAT 050

From the early days of our nation, the Founding Fathers realized the importance of a free press. Through the Civil Rights Movement and our present Information Age, journalism has played a vital role in our nation's well-being. Journalists witness and record our lives. Journalism also makes a great partner for those pursuing other careers. It is learning how to write and then developing an expertise in a cognate area, such as business, science, law, the performing arts, literature, and the social and behavioral sciences.

Many of our authors, including Ernest Hemingway, Tom Clancy, Erma Bombeck, Edna Buchanan, Dave Barry, Mary Brody, Katherine Anne Porter and Stephen King, began their careers as reporters. Photojournalists, as well as reporters, have served as historians by recording messages and providing images for future generations.

Journalism studies at PPCC focus on the study of mass media, reporting and magazine writing. Students will learn to interview, research and write features, newspaper and magazine articles, headlines, news releases, and advertisements. Courses in digital photography are also available for PPCC journalism students. If interest is sufficient, students can develop their design skills by working on the online school newspaper, The Pikes Peak News. Along with specific journalism courses, journalism students are encouraged to gain a general education background and start a portfolio of their work. After completing the journalism program at PPCC, students transferring to four-year colleges have a variety of career writing and mass communication options to pursue.

Students enrolled in the PPCC journalism program can earn an associate of arts degree. The majority of our journalism courses are guaranteed transfer to any state four-year college or university. We recommend that you consult with your faculty advisor to choose the journalism courses that fit the emphasis you are

interested in, i.e. news/editorial, advertising/public relations, multimedia.

Courses marked with an asterisk [] are not currently offered at PCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1 3
and

GT-CO2: ENG 122 English Composition II: CO2 3

OR

GT-CO2: ENG 122 English Composition II: CO2 (3)
and

GT-CO3: ENG 201 English Composition III: CO3 (3)

Oral Communication

Three (3) credit hours

COM 115 Public Speaking 3
or

COM 125 Interpersonal Communication (3)
or

COM 220 Intercultural Communication: SS3 (3)

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be applied to the electives category). Full list of requirements can be found on page 42.

Suggested Courses

MAT 120 Mathematics for the Liberal Arts: MA1 4
MAT 135 Introduction to Statistics: MA1 3

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2 or SS3)

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2 or SS3)

Suggested Courses

GT-AH1
ART 111 Art History Ancient to Medieval: AH1 3
ART 112 Art History Renaissance to 1900: AH1 3

MUS 120 Music Appreciation: AH1 3
MUS 121 Music History Medieval thru Classical Period: 3
AH1

MUS 122 Music History Early Romantic Period to the 3
Present: AH1

THE 105 Introduction to Theatre Arts: AH1 3

GT-AH2
HUM 121 Early Civilizations: AH2 3
HUM 122 Medieval to Modern: AH2 3

HUM 123 The Modern World: AH2 3
LIT 115 Introduction to Literature: AH2 3

LIT 201 World Literature to 1600: AH2 3
LIT 202 World Literature after 1600: AH2 3

LIT 221 British Literature to 1770: AH2 3
LIT 222 British Literature Since 1770: AH2 3

GT-AH3
PHI 111 Introduction to Philosophy: AH3 3
PHI 112 Ethics: AH3 3

GT-SS1
ECO 201 Principles of Macroeconomics: SS1 3
ECO 202 Principles of Microeconomics: SS1 3

POS 105 Introduction to Political Science: SS1 3
POS 111 American Government: SS1 3

GT-SS2
GEO 105 World Regional Geography: SS2 3

GT-SS3

JOU 105 Introduction to Mass Media: SS3 3

SOC 101 Introduction to Sociology I: SS3 3

History

One guaranteed transfer course from History (HI1)

HIS 101 Western Civilization: Antiquity-1650: HI1 3

HIS 102 Western Civilization: 1650-Present: HI1 3

HIS 121 U.S. History to Reconstruction: HI1 3

HIS 122 U.S. History since the Civil War: HI1 3

Natural and Physical Sciences

Seven (7) credit hours. Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ART 138 Film Photography I 3

ART 139 Digital Photography I 3

JOU 105 Introduction to Mass Media: SS3 3

JOU 106 Media News & Reporting 3

JOU 215 Publications Production & Design 3

JOU 225 New Media 3

JOU 231 Introduction to Public Relations 3

JOU 241 Feature and Magazine Writing 3

JOU 280 Internship 3

Total Credit Hours 60

Literature

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092

To major in English in the new millennium is to do more than select a profession; it is to identify one's vocation. Whether students decide someday to specialize in rhetoric and composition, literary criticism, or creative writing, or to become journalists, songwriters, screenwriters, or teachers of English, they will learn to promote literacy and thoughtful dissent in contemporary society. They will learn that connections between life and literature are basic to living in and understanding a complex global community.

Courses marked with an asterisk [] are not currently offered at PCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1 3
and

GT-CO2: ENG 122 English Composition II: CO2 3

OR

GT-CO2: ENG 122 English Composition II: CO2 (3)
and

GT-CO3: ENG 201 English Composition III: CO3 (3)

Oral Communication

Three (3) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 220	Intercultural Communication: SS3	(3)

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be applied to the electives category). Full list of requirements can be found on page 42.

Suggested Courses

MAT 120	Mathematics for the Liberal Arts: MA1	4
---------	---------------------------------------	---

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2 or SS3)

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2 or SS3)

Suggested Courses**GT-AH1**

ART 110	Art Appreciation: AH1	3
THE 105	Introduction to Theatre Arts: AH1	3

GT-AH2

HUM 121	Early Civilizations: AH2	3
HUM 122	Medieval to Modern: AH2	3
LIT 115	Introduction to Literature: AH2	3
LIT 201	World Literature to 1600: AH2	3
LIT 202	World Literature after 1600: AH2	3
LIT 211	American Literature to the Civil War: AH2	3
LIT 212	American Literature after the Civil War: AH2	3
LIT 221	British Literature to 1770: AH2	3
LIT 222	British Literature since 1770: AH2	3

GT-AH3

PHI 111	Introduction to Philosophy: AH3	3
PHI 114	Comparative Religions: AH3	3

GT-SS1

POS 111	American Government: SS1	3
---------	--------------------------	---

GT-SS2

GEO 105	World Regional Geography: SS2	3
---------	-------------------------------	---

GT-SS3

ANT 101	Cultural Anthropology: SS3	3
PSY 101	General Psychology I: SS3	3
SOC 101	Introduction to Sociology I: SS3	3

History

One guaranteed transfer course from History (HI1)

HIS 101	Western Civilization: Antiquity-1650: HI1	3
HIS 102	Western Civilization: 1650-Present: HI1	3
HIS 111	The World: Antiquity-1500: HI1	3
HIS 112	The World: 1500-Present: HI1	3
HIS 255	The Middle Ages: HI1	3

Natural and Physical Sciences

Seven (7) credit hours. Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ENG 221	Creative Writing I	3
ENG 222	Creative Writing II	3
ENG 230	Creative Nonfiction	3
HUM 103	Introduction to Film Art: AH2	3
HUM 115	World Mythology: AH2	3
HUM 121	Early Civilizations: AH2	3
HUM 122	Medieval to Modern: AH2	3
HUM 123	The Modern World: AH2	3
LIT 115	Introduction to Literature: AH2	3
LIT 205	Ethnic Literature: AH2	3
LIT 211	American Literature to Civil War: AH2	3
LIT 212	American Literature After the Civil War: AH2	3
LIT 225	Introduction to Shakespeare: AH2	3
LIT 268	Celtic Literature: AH2	3

Total Credit Hours 60

Music**Associate of Arts Degree with Designation**

Recommended basic skills are:

- CCR 092

Music, as all of the arts, is an expression and transcendence of the human experience. Music courses serve as an introduction into the examination of sound as a vibrant art form as well as to provide training in performance and composition. The Music Department's offerings of humanities and performance classes are open to all students beginning through advanced. Consultation with the program director is recommended for course placement while consultation with the program director is required for applied music study.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		

GT-CO2: ENG 122	English Composition II: CO2	3
-----------------	-----------------------------	---

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		

GT-CO3: ENG 201	English Composition III: CO3	(3)
-----------------	------------------------------	-----

Mathematics

Three (3) credit hours gtPathways Mathematics course (MA1), but not MAT 155 or MAT 156.

GT-MA1:	MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265
---------	---

Arts and Humanities

Six (6) credit hours gtPathways Arts & Humanities courses (AH1)

MUS 121	Music History Medieval thru Classical Period: AH1	3
---------	---	---

MUS 122	Music History Early Romantic Period to the Present: AH1	3
---------	---	---

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260
---------	---

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral Sciences courses (SS1, SS2, or SS3)

- GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 225
- GT-SS2: GEO 105, GEO 106
- GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven (7) credit hours gtPathways Natural and Physical Sciences courses (SC1, SC2). One of these courses must have the required laboratory.

- GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156
- GT-SC2: AST 155*, GEY 108

Additional Required Courses

MUS 110	Music Theory I	3
MUS 111	Music Theory II	3
MUS 112	Ear Training/Sight-singing I Lab	1
MUS 113	Ear Training/Sight-singing II Lab	1
MUS 131	Music Class I	2
MUS 141	Private Instruction I	2
MUS 142	Private Instruction II	2
MUS 151	Ensemble I	1
MUS 152	Ensemble II	1
MUS 210	Music Theory III	3
MUS 211	Music Theory IV	3
MUS 212	Advanced Ear Training/Sight-singing I Lab	1
MUS 213	Advanced Ear Training/Sight-singing II Lab	1
MUS 241	Private Instruction I	2
MUS 242	Private Instruction II	2
MUS 251	Ensemble I	1
MUS 252	Ensemble II	1

Music Electives

Three (3) credit hours selected from the AA approved course list can be found on page 43.

Total Credit Hours 60

Philosophy

Associate of Arts Degree with Designation

Recommended basic skills standards are:

- CCR 092

People are selling more than consumer goods in the world today. The market place of ideas contains competing political ideologies, religious beliefs and different value systems. Philosophy equips individuals to make lucid choices amid this ever-changing world, and gives them the intellectual strength to defend what they do and what they believe.

Philosophy fearlessly explores the big questions. What is the meaning of life? What is my purpose in living? What is the nature of happiness? Is there a God? How do I decide what is right and wrong? What is the nature of reality and of human consciousness? Are there limits to what can be known? Will a machine ever

duplicate the mind? Why do we need government and what should be its role?

Fields that usually require philosophy are law, economics, government, politics, environmental policy, and theology. *Courses marked with an asterisk [*] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

- GT-CO1: ENG 121 English Composition I: CO1 3
and
GT-CO2: ENG 122 English Composition II: CO2 3

OR

- GT-CO2: ENG 122 English Composition II: CO2 (3)
and
GT-CO3: ENG 201 English Composition III: CO3 (3)

Mathematics

Three (3) credit hours gtPathways Mathematics course (MA1)

- GT-MA1: MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265

Arts and Humanities

Six (6) credit hours gtPathways Arts & Humanities courses (AH1, AH2 or AH4)

- GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
- GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
- GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212

History

Three (3) credit hours gtPathways History course (HI1)

- GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral courses (SS1, SS2 or SS3)

- GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 215, POS 225
- GT-SS2: GEO 105, GEO 106
- GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven (7) credit hours gtPathways Natural & Physical Sciences courses (SC1, SC2). One course must have the required lab course (SC1)

- GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156
- GT-SC2: AST 155*, GEY 108

Additional Required Courses

Fifteen (15) credit hours

PHI 111	Introduction to Philosophy: AH3	3
PHI 112	Ethics: AH3	3
PHI 113	Logic: AH3	3

Choose two (2) courses from the following:

PHI 214	Philosophy of Religion: AH3	3
PHI 218	Environmental Ethics: AH3	3
PHI 220*	Death & Dying: AH3	

Electives

Fourteen (14) credit hours selected from the AA approved course list can be found on page 43.

PHI 114	Comparative Religion: AH3	3
POS 105	Introduction to Political Science: SS1	3
	Any AA approved LIT elective course	3
	Any AA approved Fine Art or Communication elective course. Contact Philosophy advisor for more information.	1-3

Total Credit Hours 60

Political Science

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

Political Science is the study of government: what it is, what it does, and how and why. Political scientists are interested in government at every level: local, county, state, regional, national, and international. Many of them specialize in one general area of political science such as political theory, U.S. political institutions and processes, comparative government, or international relations and organizations. Political scientists seek specialization in sub-areas within the discipline.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3
	OR	
GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Three (3) credit hours gtPathways Mathematics course (MA1), but not MAT 155 or MAT 156.

GT-MA1:	MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265
---------	---

Arts and Humanities

Six (6) credit hours

Two (2) gtPathways Art & Humanities courses (AH1, AH2, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*

GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212
---------	--

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260
---------	---

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social and Behavioral Sciences courses (SS1)

ECO 201	Principles of Macroeconomics: SS1	3
ECO 202	Principles of Microeconomics: SS1	3

Natural and Physical Sciences

Eight (8) credit hours gtPathways Natural & Physical Sciences courses (SC1, SC2)

GT-SC1:	AGY 240, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156
---------	--

GT-SC2:	AST 155*, GEY 108
---------	-------------------

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional Required Courses

Twelve (12) credit hours

POS 105	Introduction to Political Science: SS1	3
POS 111	American Government: SS1	3
POS 205	International Relations: SS1	3
POS 225	Comparative Government: SS1	3

Electives

Sixteen (16) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ANT	Any Approved Anthropology elective	3
GEO 105	World Regional Geography: SS2	3
GEO 106	Human Geography: SS2	3
HIS	Any Approved History elective	3
POS 125	American State & Local Government: SS1	3
POS 215	Current Political Issues	3

Total Credit Hours 60

Professional Writing & Communication

Associate of Arts Course of Study

Recommended basic skills standards are

- CCR 092
- MAT 050

Professional writing is the integration of creativity, technology, and problem solving. The ability to communicate in a variety of formats to a variety of audiences for a variety of purposes is a widely sought skill in the marketplace. Students who pursue an emphasis in professional writing particularly when coupled with another major or minor will be highly competitive for careers in education, business and the arts.

Professional Writing majors interested in technical writing, creative writing or journalism should contact their four-year transfer institution for recommendations concerning elective courses.

Courses marked with an asterisk [] are not currently offered at PCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Oral Communication

Three (3) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 220	Intercultural Communication: SS3	(3)

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be applied to the electives category). Full list of requirements can be found on page 42.

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2 or SS3)

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2, or SS3)

Suggested Courses

GT-AH1		
ART 110	Art Appreciation: AH1	3
ART 111	Art History Ancient to Medieval: AH1	3
ART 112	Art History Renaissance to 1900: AH1	3
THE 105	Introduction to Theater Arts: AH1	3
GT-AH2		
HUM 121	Early Civilizations: AH2	3
HUM 122	Medieval to Modern: AH2	3
HUM 123	The Modern World: AH2	3
LIT 115	Introduction to Literature: AH2	3
LIT 201	World Literature to 1600: AH2	3
LIT 202	World Literature after 1600: AH2	3
LIT 221	British Literature to 1770: AH2	3
LIT 222	British Literature since 1770: AH2	3
GT-AH3		
PHI 111	Introduction to Philosophy: AH3	3
PHI 112	Ethics: AH3	3
PHI 113	Logic: AH3	3
GT-SS1		
ECO 201	Principles of Macroeconomics: SS1	3
ECO 202	Principles of Microeconomics: SS1	3
GT-SS3		
JOU 105	Introduction to Mass Media: SS3	3
PSY 101	General Psychology I: SS3	3
PSY 102	General Psychology II: SS3	3

SOC 101	Introduction to Sociology I: SS3	3
SOC 102	Introduction to Sociology II: SS3	3

History

One guaranteed transfer course from History (HI1)

HIS 101	Western Civilization: Antiquity-1650: HI1	3
HIS 102	Western Civilization: 1650-Present: HI1	3
HIS 121	U.S. History to Reconstruction: HI1	3
HIS 122	U.S. History since the Civil War: HI1	3

Natural and Physical Sciences

Seven (7) credit hours

Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ENG 131	Technical Writing I	3
ENG 221	Creative Writing I	3
ENG 222	Creative Writing II	3
ENG 227	Poetry Writing	3
ENG 230	Creative Non-Fiction	3
ENG 231	Literary Magazine	3
JOU 105	Introduction to Mass Media: SS3	3
JOU 106	Media News & Reporting	3
JOU 215	Publications Production & Design	3
JOU 225	New Media	3
JOU 231	Introduction to Public Relations	3
JOU 241	Feature and Magazine Writing	3

Total Credit Hours

60

Psychology

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

Psychologists study the behavior of individuals and groups and often help individuals achieve satisfactory personal adjustments. Their work includes varied activities such as teaching in colleges and universities, counseling and psychotherapy, psychological testing, planning and conducting training programs for workers, performing basic and applied research, advising on psychological methods and theories, and administering psychology programs in hospitals, clinics, research laboratories, etc. Students pursuing a bachelor's degree in psychology can fulfill lower division requirements at Pikes Peak Community College. Students should note that graduate degrees are required for most professional positions in psychology.

NOTE: Psychology majors are advised to complete PSY 101 and PSY 102.

Students may follow the degree with designation in Psychology or transfer guide in Psychology to a particular four-year college/university. Consult your Faculty Advisor to assist you in determining the best pathway for you.

Courses marked with an asterisk [] are not currently offered at PCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1

and

GT-CO2: ENG 122 English Composition II: CO2

OR

GT-CO2: ENG 122 English Composition II: CO2

and

GT-CO3: ENG 201 English Composition III: CO3

Mathematics

Three-four (3-4) credit hours

MAT 121 College Algebra : MA1

Arts and Humanities

Nine (9) credit hours gtPathways Arts & Humanities courses from three different areas (AH1, AH2, AH3 or AH4)

GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212

GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268

GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*

GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral Sciences courses (SS1, SS2 or SS3)

GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 215, POS 225

GT-SS2: GEO 105, GEO 106

GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven-eight (7-8) credit hours

One (1) gtPathways Biology course with lab and one (1) gtPathways Natural & Physical Sciences course of the student's choosing.

GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156

GT-SC2 AST 155*, GEY 108

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional Required Courses

Eighteen (18) credit hours

3	COM 115	Public Speaking	3
	or		
3	COM 125	Interpersonal Communication	(3)
	PSY 101	General Psychology I: SS3	3
	PSY 102	General Psychology II: SS3	3
	Choose three (3) courses below		9
(3)	PSY 205	Psychology of Gender: SS3	3
	PSY 217	Human Sexuality: SS3	3
	PSY 226	Social Psychology: SS3	3
	PSY 235	Human Growth & Development: SS3	3
	PSY 238	Child Development: SS3	3
	PSY 240*	Health Psychology: SS3	3
4	PSY 249	Abnormal Psychology: SS3	3

Electives

Six-eight (6-8) credit hours selected from the AA approved course list can be found on page 43.

Total Credit Hours 60**Social Work Transfer****Associate of Arts Course of Study**

Recommended basic skills standards are

- CCR 092
- MAT 055

This program provides the first two years for transfer students who wish to pursue a career in social work or the human services field. Because of different requirements at four-year institutions, it is important that students work with advisors.

NOTE: Colorado State University-Pueblo has specific program requirements for transfer; consult your program advisor for specifics.

NOTE: To be employed in the social work field it is expected that you will be able to pass background checks. This will include fingerprinting for the Colorado Bureau of Investigation and a Central Registry Inquiry.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1

and

GT-CO2: ENG 122 English Composition II: CO2

OR

GT-CO2: ENG 122 English Composition II: CO2

and

GT-CO3: ENG 201 English Composition III: CO3

Oral Communication

Three (3) credit hours

Suggested Course

COM 115 Public Speaking 3

Mathematics

Three (3) credit hours minimum (credit hours over three [3] will be applied to the electives category). Full list of requirements can be found on page 42.

Suggested Course

MAT 135 Introduction to Statistics: MA1 3

Arts and Humanities / Social and Behavioral Sciences

Eighteen (18) credit hours. Full list of requirements can be found on page 42.

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

Two guaranteed transfer Social & Behavioral Sciences courses from two different areas (SS1, SS2, or SS3)

One additional course from Arts & Humanities or Social and Behavioral Sciences (AH1, AH2, AH3, AH4, SS1, SS2 or SS3)

Suggested Courses**GT-SS1**

POS 111 American Government: SS1 3

GT-SS3

PSY 101 General Psychology I: SS3 3

SOC 101 Introduction to Sociology I: SS3 3

History

One guaranteed transfer course from History (HI1)

Natural and Physical Sciences

Seven (7) credit hours. Two (2) guaranteed transfer courses including at least one (1) lab course (SC1, SC2*). Additional credit hours over seven (7) will be applied to the electives category. Full list of requirements can be found on page 42.

Suggested Course

BIO 105 Science of Biology: SC1 4

Electives

Twenty-three (23) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ETH 224 Introduction to Chicano Studies: SS3 3

SWK 100 Introduction to Social Work 3

SWK 201 Human Behavior in the Social Environment I 3

SWK 202 Human Behavior in the Social Environment II 3

SWK 205 Social Welfare in the U.S. 3

SWK 222 Introduction to Social Work Practice 3

Total Credit Hours 60

SWK courses must be taken for the Colorado State University - Pueblo Social Work Program and count toward electives. SWK courses require paperwork from your advisor to be used in an AA degree. SWK courses transfer to Colorado State University-Pueblo Social Work Program.

In addition to the SWK courses, you must select one to three (1-3) credits from the AA Approved Course electives. Full list of electives can be found on page 43.

Sociology

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

Sociology is a systematic study of society which includes people in groups, cultures and subcultures, the socialization process, social organization, social institutions (political, religious, educational, economic, etc.), social stratifications, social change, race and ethnic relations, human ecology, and social problems. As an intellectual discipline, it deals with developing scientific and reliable knowledge about human social relationships in group life. Courses are designed to increase personal awareness of the social environment, to prepare for interpersonal relationships in careers, and to equip students for further studies in sociology. *Courses marked with an asterisk [*] are not currently offered at PPEC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1 3

and

GT-CO2: ENG 122 English Composition II: CO2 3

OR

GT-CO2: ENG 122 English Composition II: CO2 (3)

and

GT-CO3: ENG 201 English Composition III: CO3 (3)

Mathematics

Three-four (3-4) credit hours

Suggested Courses

MAT 121 College Algebra: MA1 4

or

MAT 135 Introduction to Statistics: MA1 (3)

Arts and Humanities

Nine (9) credit hours gtPathways Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212

GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268

GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*

GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral Sciences courses (SS1, SS2 or SS3)

GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 215, POS 225

GT-SS2: GEO 105, GEO 106

GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Eight (8) credit hours gtPathways Natural & Physical Sciences courses (SC1, SC2)

GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156

GT-SC2: AST 155*, GEY 108

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional Required Courses

Eighteen (18) credit hours

Additional Sociology courses beyond the 5 courses (15 credit hours) identified below may not count toward the Sociology major at the receiving 4-year institution.

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
SOC 101	Introduction to Sociology I: SS3	3
SOC 102	Introduction to Sociology II: SS3	3
Three (3) additional GT-SS3 Sociology course from list below		9
GT-SS3: SOC 205, SOC 207, SOC 215, SOC 216, SOC 218, SOC 220, SOC 231, SOC 237		

Electives

Six-seven (6-7) credit hours selected from the AA approved course list can be found on page 43.

Suggested Courses

ANT 101	Cultural Anthropology: SS3	3
ETH 200	Introduction to Ethnic Studies: SS3	3
PSY 101	General Psychology I: SS3	3
PSY 102	General Psychology II: SS3	3
SOC 201	Introduction to Gerontology	3
SOC 205	Sociology of Family Dynamics: SS3	3
SOC 215	Contemporary Social Problems: SS3	3
SOC 216	Sociology of Gender: SS3	3
SOC 218	Sociology of Diversity: SS3	3
SOC 220	Sociology of Religion: SS3	3
SOC 223	Chicanos in a Changing Society	3
SOC 231	The Sociology of Deviant Behavior: SS3	3
SOC 237	Sociology of Death & Dying: SS3	3
Any Foreign Language		5

Total Credit Hours 60

Spanish

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

PPCC's foreign language programs are built around the standards put forth by the American Council on the Teaching of Foreign Languages (ACTFL). The goals of those standards are that students communicate with others in the language they are studying, both in and outside the classroom; that they learn about and experience the cultures of other languages; that they make connections between the language they are learning and other disciplines; that they make comparisons between their native language and culture and the language and culture they are learning; and that they become active in communities of speakers of the language they are learning. Foreign language study is compatible with study in all other disciplines, especially law enforcement, health professions, education, social and behavioral sciences, business, journalism, and art history.

Students who have studied French, German, or Spanish in high school or who have lived in a country where one of those languages is spoken should take a placement test before enrolling in a course in that language. All native speakers of a language other than English must have permission of a full-time foreign language faculty member before enrolling in a course in their native language.

Students considering a major in a foreign language should be aware that first-year language courses do not count toward credit-hour requirements for a major or minor in most four-year institutions.

Students may follow the degree with designation in Spanish or transfer guide in Spanish to a particular four-year college/university. Consult your Faculty Advisor to assist you in determining the best pathway for you. Please note that the degree tracks in Spanish for the Professions and Spanish with Secondary Teaching Licensure have different requirements and are not included in this agreement.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Three (3) credit hours. One (1) gtPathways Mathematics course, but not MAT 155 or MAT 156.

GT-MA1:	MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265
---------	---

Art and Humanities

Nine (9) credit hours

SPA 211	Spanish Language III: AH4	3
SPA 212	Spanish Language IV: AH4	3

One (1) gtPathways Arts & Humanities courses from (AH1, AH2, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212

History

Three (3) credit hours

HIS 244	History of Latin America: HI1	3
or		
Another gtPathways History course (HI1) focusing on the Spanish-speaking world (non-U.S.) or another gtPathways non-U.S. History course.		(3)

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral Sciences courses (SS1, SS2, SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 215, POS 225
GT-SS2:	GEO 105, GEO 106
GT-SS3:	AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven (7) credit hours gtPathways Natural & Physical Sciences courses (SC1, SC2)

GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156

GT-SC2 AST 155*, GEY 108

Students choosing to take SCI 155 must also take SCI 156 to satisfy this requirement.

Additional Required Courses

Thirteen (13) credit hours

COM 115	Public Speaking	3
	or	
COM 125	Interpersonal Communication	(3)
SPA 111	Spanish Language I	5
SPA 112	Spanish Language II	5

Electives

Thirteen (13) credit hours selected from the AA approved course list. Suggested courses include 200-level Spanish courses and courses outside the Foreign Language department with content related to the Spanish-speaking world.

Total Credit Hours 60

Studio Art

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

The Associate of Art degree in Studio Art is designed for students intending to transfer to a four-year university or college to pursue a Bachelor's degree in Studio Art. Students completing the following 60 credit hours will start as an entering junior at the four-year school.

This degree is designed to allow students to complete the art foundation courses while discovering and developing their creativity and skills in various art media.

Courses marked with an asterisk [] are not currently offered at PPEC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
	and	
GT-CO2: ENG 122	English Composition II: CO2	3
	OR	
GT-CO2: ENG 122	English Composition II: CO2	(3)
	and	
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Three (3) credit hours gtPathways Mathematics course (MA1)

GT-MA1: MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265

Arts and Humanities

Six (6) credit hours gtPathways Arts and Humanities courses (AH1, AH2, AH3 or AH4)

GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212

GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268

GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*

GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral Sciences courses (SS1, SS2 or SS3)

GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 215, POS 225

GT-SS2: GEO 105, GEO 106

GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven (7) credit hours gtPathways Natural & Physical Sciences courses (SC1, SC2). One of these courses must have the required laboratory (SC1).

GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156

GT-SC2 AST 155*, GEY 108

Additional Required Courses

Twenty-one (21) credit hours

ART 111	Art History Ancient to Medieval: AH1	3
ART 112	Art History Renaissance to 1900: AH1	3
ART 121	Drawing I	3
ART 131	Visual Concepts 2-D Design	3
ART 132	Visual Concepts 3-D Design	3
ART 221	Drawing II	3
	or	
ART 128	Figure Drawing I	(3)
	Studio Art course	3

Electives

Eight (8) credit hours selected from the AA approved course list can be found on page 43.

Total Credit Hours 60

Theatre

Associate of Arts Degree with Designation

Recommended basic skills standards are

- CCR 092

Along with music and dance, drama is one of the oldest forms of human expression. As Aristotle stated: "Imitation is natural to man" so mankind, by means of creating staged productions, has expressed this desire to mirror the actions of others. Theatre courses introduce students to the theatre as an art form and provide basic training in acting and production activities.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Three (3) credit hours gtPathways Mathematics course (MA1), but not MAT 155 or MAT 156.

GT-MA1:	MAT 120, MAT 121, MAT 122, MAT 123, MAT 125, MAT 135, MAT 166, MAT 201, MAT 202, MAT 203, MAT 204, MAT 215, MAT 261*, MAT 265
---------	---

Arts and Humanities

Six (6) credit hours gtPathways Arts & Humanities (AH1). Full list of requirements can be found on page 42.

THE 105	Theatre Appreciation: AH1	3
THE 211	Development of Theatre Greek-Renaissance: AH1	3

History

Three (3) credit hours gtPathways Arts & Expressions course in History (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260
---------	---

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral Sciences courses (SS1, SS2, or SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 225
GT-SS2:	GEO 105, GEO 106
GT-SS3:	AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Seven (7) credit hours Natural and Physical Sciences courses (SC1, SC2). One of these courses must have the required laboratory.

GT-SC1:	AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO 105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204, BIO 208*, BIO 220*, BIO 221*, BIO 224, CHE 101, CHE 102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO 111, GEO 112, GEY 111, GEY 112, GEY 135, MET 150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY 112, PHY 211, PHY 212, SCI 155, SCI 156
GT-SC2	AST 155*, GEY 108

Additional Required Courses

Eighteen (18) credit hours

THE 108	Theater Script Analysis: AH1	3
THE 111	Acting I	3
THE 116	Technical Theatre	3
THE 212	Development of Theatre Restoration to Modern:AH1	3
THE 215	Playwriting	3

Choose one (1) course from the following:

THE 131	Theatre Production I	3
THE 132	Theatre Production II	3
THE 231	Theatre Production III	3
THE 232	Theatre Production IV	3

Electives

Eleven (11) credit hours selected from the AA approved course list can be found on page 43.

Total Credit Hours 60

Associate of Science Degree (AS)

The Associate of Science degree is designed for students who want an emphasis in natural sciences, mathematics, computer science, pre-engineering, and allied health and intend to transfer to four-year colleges and universities.

To earn the Associate of Science Degree, students must complete the following course requirements for a total of 60 semester credit hours, at least 36 of which must be Colorado State-Guaranteed Courses.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1 3
and

GT-CO2: ENG 122 English Composition II: CO2 3

OR

GT-CO2: ENG 122 English Composition II: CO2 (3)
and

GT-CO3: ENG 201 English Composition III: CO3 (3)

Oral Communication

Three (3) credit hours

COM 115 Public Speaking 3
or

COM 125 Interpersonal Communication (3)
or

COM 220 Intercultural Communication: SS3 (3)

Mathematics

Three (3) credit hours

GT-MA1: MAT 121, MAT 122, MAT 123, MAT 125, MAT 135,
MAT 166, MAT 201, MAT 202, MAT 203, MAT 204,
MAT 215, MAT 261*, MAT 265

History

Three (3) credit hours

GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS
202, HIS 205, HIS 207, HIS 208, HIS 215, HIS 225,
HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS
247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 260

Arts and Humanities

Six (6) credit hours. Two guaranteed transfer courses from two different areas (AH1, AH2, AH3 or AH4)

GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125,
MUS 120, MUS 121, MUS 122, MUS 123, MUS 125,
THE 105, THE 211, THE 212

GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123,
LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212,
LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268

GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 214, PHI
218, PHI 220*

GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA
212, JPN 211, JPN 212, RUS 211, RUS 212, SPA
211, SPA 212

Social and Behavioral Sciences

Six (6) credit hours. Two guaranteed transfer courses from two different areas (SS1, SS2, SS3)

GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245,
POS 105, POS 111, POS 125, POS 205, POS 215,
POS 225

GT-SS2: GEO 105, GEO 106

GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107,
ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220,
CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY
205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238,
PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205,
SOC 207, SOC 215, SOC 218, SOC 220, SOC 216,
SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Twelve (12) credit hours. One (2 course) lab sequence in any guaranteed transfer science discipline (SC1); additional guaranteed transfer lab science course (SC1).

Meet with your advisor to choose the appropriate Natural and Physical Science classes for your Associate of Science degree.

While all GT-SC1 classes transfer, some may not be applicable to your academic goals.

GT-SC1: AGY 240, ANT 111, AST 101, AST 102, BIO 104, BIO
105, BIO 111, BIO 112, BIO 201, BIO 202, BIO 204,
BIO 208*, BIO 220, BIO 221, BIO 224, CHE 101, CHE
102, CHE 105*, CHE 111, CHE 112, ENV 101, GEO
111, GEO 112, GEY 111, GEY 112, GEY 135, MET
150, NRE 251*, PHY 105*, PHY 107*, PHY 111, PHY
112, PHY 211, PHY 212

Other required courses and electives

Twenty-one (21) credit hours selected from the AS approved course list.

Total Credit Hours **60**

Other Requirements

1. A minimum of 60 credit hours in a prescribed program of study with a cumulative grade point average of 2.0 (a C average). At least 15 of these credit hours must be earned from PPCC.
2. Only six (6) elective credits are allowed in any combination of PED courses.
3. Students may concentrate their study in a specialized area such as biological sciences, chemistry, or pre-engineering. Many "Course of Study" are included in the next section of this catalog.
4. Career and technical courses, whether taken at another institution or at PPCC, are not accepted toward this degree without approval of the Vice President for Instructional Services. Approval is given only when it is appropriate to the educational objectives of a student.
5. Courses numbered below 100 do not apply toward degrees.

Foreign Language Note: It is advisable to verify the foreign language admissions requirements for the university/four-year college you are planning to attend. For example, many of the Colorado four-year institutions require foreign languages for admission; the CU system requires 2-3 years of high school foreign language (or equivalent 2-3 semesters at Pikes Peak Community College). Students planning to attend a Colorado four-year institution who do not have the prerequisite foreign language requirement from high school should consider enrolling in these courses in addition to the degree requirements.

Approved Elective Course List for AS Degrees

These courses are guaranteed to transfer as part of the 60+60 Bachelor's Degree Transfer Program. State-wide and individual college transfer agreements prescribe electives which transfer as part of those programs. Students who transfer prior to completing the AS degree are responsible for checking transfer of individual courses with the receiving four-year institution.

Twenty-one (21) credits must be selected from the following list of Mathematics and Science courses to complete the Associate of Science Degree. Up to two credits can be selected from the Associate of Arts Approved Electives list.

Mathematics

MAT 121	College Algebra: MA1	4
MAT 122	College Trigonometry: MA1	3
MAT 125	Survey of Calculus: MA1	4
MAT 135	Introduction to Statistics: MA1	3
MAT 166	Pre-Calculus: MA1	5
MAT 179	Computer Applications for Statistical Procedures	1
MAT 201	Calculus I: MA1	5
MAT 202	Calculus II: MA1	5
MAT 203	Calculus III: MA1	4
MAT 204	Calculus III with Engineering Applications: MA1	5
MAT 215	Discrete Mathematics: MA1	4
MAT 265	Differential Equations: MA1	3

Science

AST 101	Astronomy I with Lab: SC1	4
AST 102	Astronomy II with Lab: SC1	4
BIO 111	General College Biology I w/Lab: SC1	5
BIO 112	General College Biology II w/Lab: SC1	5
BIO 201	Human Anatomy & Physiology I: SC1	4
BIO 202	Human Anatomy & Physiology II: SC1	4
BIO 204	Microbiology: SC1	4
BIO 216	Human Pathophysiology	4
BIO 220	General Zoology: SC1	5
BIO 221	Botany with Lab: SC1	5
CHE 111	General College Chemistry I: SC1	5
CHE 112	General College Chemistry II: SC1	5
CHE 211	Organic Chemistry I: SC1	5
CHE 212	Organic Chemistry II: SC1	5
CSC 105	Computer Literacy	3
CSC 120	Problem Solving with (Software Package)	3
CSC 126	Game Design & Development	3
CSC 150	Visual Basic Programming: 6.0	3
CSC 154	Visual Basic.Net Programming	3
CSC 160	Computer Science I (Language)	4
CSC 161	Computer Science II (Language)	4
CSC 225	Computer Architecture/Assembly Language Programming	4
CSC 230	C Programming: Platform	3
CSC 240	Java Programming	3
GEO 111	Physical Geography – Landforms: SC1	4
GEO 112	Physical Geography – Weather & Climate: SC1	4
GEY 111	Physical Geology with Lab: SC1	4
GEY 112	Historical Geology with Lab: SC1	4
GEY 135	Environmental Geology with Lab: SC1	4
MET 150	General Meteorology: SC1	4
PHY 111	Physics: Algebra-Based I w/Lab: SC1	5
PHY 112	Physics: Algebra-Based II w/Lab: SC1	5
PHY 211	Physics: Calculus-Based I w/Lab: SC1	5
PHY 212	Physics: Calculus-Based II w/Lab: SC1	5

Associate of Science Courses of Study

Biology

Associate of Science Degree with Designation

Recommended basic skills standards are

- CCR 092
- MAT 055

The study of biological sciences prepares one for a variety of fields including the traditional ones—biology teacher, doctor, nurse, or conservationist. New fields have developed in several life science areas such as paramedicine, cellular biology, wildlife management, and forestry. Other fields, which may require a modified program, include agriculture, allied health, natural resources management, and home economics. It is strongly recommended that students consult with an advisor for the specific requirements in these fields.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Five (5) credit hours gtPathways Mathematics course (MA1)

MAT 201	Calculus I: MA1	5
---------	-----------------	---

Arts and Humanities

Six (6) credit hours gtPathways Arts and Humanities courses (AH1, AH2, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212	
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268	
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*	
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212	

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260	
---------	---	--

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social and Behavioral Sciences courses (SS1, SS2, SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 225	
GT-SS2:	GEO 105, GEO 106	

GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Ten (10) credit hours gtPathways Natural and Physical Sciences courses (SC1)

BIO 111 General College Biology I w/Lab: SC1 5
CHE 111 General College Chemistry I: SC1 5

Additional Required Courses

Twenty (20) credit hours

BIO 112 General College Biology II with Lab: SC1 5
CHE 112 General College Chemistry II: SC1 5
PHY 111 Physics: Algebra-Based I with Lab: SC1 5
PHY 112 Physics: Algebra-Based II with Lab: SC1 5

Electives

Four (4) credit hours selected from the AS approved course list can be found on page 70.

Total Credit Hours 60

Chemistry

Associate of Science Degree with Designation

Recommended basic skills standards are

- CCR 092
- MAT 055

Chemistry is one of the most diverse sciences. A chemist can study in a wide range of areas such as nuclear chemistry, biochemistry of life, chemistry of inorganic and/or organic compounds, the theory of chemical processes, and chemistry of the environment. There are many career opportunities relating to chemistry such as teaching, industrial processes, medical science, criminology, metallurgy, food processing, pharmacology, geochemistry, and environmental sciences.

Courses marked with an asterisk [] are not currently offered at PCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1 3
and

GT-CO2: ENG 122 English Composition II: CO2 3

OR

GT-CO2: ENG 122 English Composition II: CO2 (3)
and

GT-CO3: ENG 201 English Composition III: CO3 (3)

Mathematics

Five (5) credit hours gtPathways Mathematics course (MA1)

MAT 201 Calculus I: MA1 5

Arts and Humanities

Three (3) credit hours gtPathways Arts and Humanities courses (AH1, AH2, AH3 or AH4)

GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212

GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268

GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*

GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Three (3) credit hours gtPathways Social and Behavioral Sciences courses (SS1, SS2, SS3)

GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 225

GT-SS2: GEO 105, GEO 106

GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Ten (10) credit hours gtPathways Natural and Physical Sciences courses (SC1)

CHE 111 General College Chemistry I: SC1 5
CHE 112 General College Chemistry II: SC1 5

Additional Required Courses

Twenty-nine (29) credit hours

CHE 211 Organic Chemistry I 5
CHE 212 Organic Chemistry II 5
MAT 202 Calculus II: MA1 5
MAT 203 Calculus III: MA1 4
PHY 211 Physics: Calculus Based I w/Lab: SC1 5
PHY 212 Physics: Calculus Based II w/Lab: SC1 5

Electives

One (1) credit hour selected from the AS approved course list can be found on page 70. Please see your advisor for help choosing your electives.

Total Credit Hours 60

Computer Science

Associate of Science Course of Study

Recommended basic skills standards are

- AAA 090
- CCR 092
- MAT 055

This program prepares students for transfer to a four-year school to obtain a baccalaureate degree. Individual courses are needed by students who wish to use the computer to solve problems in engineering, mathematics, sciences, and social sciences leading toward careers in telecommunications, computer design, and computer applications within various science and engineering fields. These courses are also of interest to people who are striving to master their personal computers.

Courses marked with an asterisk [] are not currently offered at PCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Oral Communication

Three (3) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 220	Intercultural Communication: SS3	(3)

Mathematics

Three (3) credit hours minimum (credit hours over three (3) will be applied to the electives category). Full list of requirements can be found on page 69.

Suggested Course

MAT 201	Calculus I: MA1	5
---------	-----------------	---

Arts and Humanities

Six (6) credit hours. Two guaranteed transfer courses from two different areas (AH1, AH2, AH3 or AH4). Full list of requirements can be found on page 69.

History

Three (3) credit hours. Full list of requirements can be found on page 69.

Social and Behavioral Sciences

Six (6) credit hours. Two guaranteed transfer courses from two different areas (SS1, SS2, SS3). Full list of requirements can be found on page 69.

Natural and Physical Sciences

Twelve (12) credit hours. One (2 course) lab sequence in any guaranteed transfer science discipline (SC1); additional guaranteed transfer lab science course (SC1). Additional credits over 12 will be included in the electives category.

Suggested Courses

GEY 111	Physical Geology w/Lab: SC1	4
PHY 211	Physics: Calculus-Based I w/Lab: SC1	5
PHY 212	Physics: Calculus-Based II w/Lab: SC1	5

Electives

Twenty-one (21) credit hours selected from the AS approved course list can be found on page 70. Please see your advisor for help choosing your electives.

Suggested Courses

CSC 160	Computer Science I: (Language)	4
CSC 161	Computer Science II: (Language)	4
CSC 225	Computer Architecture/Assembly Language Programming	4
CSC 230	C Programming: Platform	3
CSC 240	Java Programming	3
MAT 202	Calculus II: MA1	5

For transfer to UCCS, do not take any more than one course from the following.

CSC 120	Problem Solving with (Software Package)	3
CSC 126	Game Design & Development	3
CSC 150	Visual Basic Programming: 6.0	3
CSC 154	Visual Basic.Net Programming	3

Total Credit Hours 60

Geology**Associate of Science Degree with Designation**

Recommended basic skills standards are

- CCR 092
- MAT 055

This program provides basic preparation in geology for students planning to transfer at the junior level. A study of geology leads to careers in a variety of sub-disciplines such as earth science teaching, petroleum geology, economic geology, mining geology, paleontology, and construction geology. Because of the location of the college in the southern Rockies, field experience is emphasized in all of the offerings.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Five (5) credit hours

MAT 201	Calculus I: MA1	5
---------	-----------------	---

Arts and Humanities

Six (6) credit hours gtPathways Arts & Humanities courses (AH1, AH2, AH3, AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260
---------	---

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral Sciences courses (SS1, SS2, SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 205, POS 215, POS 225
GT-SS2:	GEO 105, GEO 106
GT-SS3:	AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Ten (10) credit hours gtPathways Natural & Physical Sciences courses (SC1)

CHE 111	General College Chemistry I: SC1	5
CHE 112	General College Chemistry II: SC1	5

Additional Required Courses

Twenty-three (23) credit hours.

GEY 111	Physical Geology with Lab: SC1	4
GEY 112	Historical Geology with Lab: SC1	4
MAT 202	Calculus II: MA1	5
PHY 211	Physics: Calculus-based I w/Lab: SC1	5
PHY 212	Physics: Calculus-based II w/Lab: SC1	5

Electives

One (1) credit hour selected from the AS approved course list can be found on page 70.

Total Credit Hours 60

Mathematics**Associate of Science Degree with Designation**

Recommended basic skills standards are

- CCR 092
- MAT 055

An understanding of mathematics is necessary for the study of many disciplines such as psychology, business, biology, computer science, engineering, physics, chemistry, and statistics. Students should consult with advisors to ensure that they study the proper curriculum for their respective discipline.

Students may follow the degree with designation in Mathematics or transfer guide in Mathematics to a particular four-year college/university. Consult your Faculty Advisor to assist you in determining the best pathway for you.

Courses marked with an asterisk [] are not currently offered at PPOC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Five (5) credit hours

MAT 201	Calculus I: MA1	5
---------	-----------------	---

Arts and Humanities

Nine (9) credit hours gtPathways Arts and Humanities courses (AH1, AH2, AH3, AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212	
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268	
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 214, PHI 218, PHI 220*	
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212	

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 205, HIS 207, HIS 208, HIS 215, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 260	
---------	--	--

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social and Behavioral Sciences courses (SS1, SS2 or SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 205, POS 215, POS 225	
GT-SS2:	GEO 105, GEO 106	
GT-SS3:	AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*	

Natural and Physical Sciences

Ten (10) credit hours

PHY 211	Physics: Calculus-Based I w/Lab: SC1	5
PHY 212	Physics: Calculus-Based II w/Lab: SC1	5

Additional Required Courses

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
MAT 202	Calculus II : MA1	5
MAT 203	Calculus III : MA1	4
or		
MAT 204	Calculus III with Engineering Applications: MA1	(5)
CSC 160	Computer Science I: (Language)	4

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

Electives

Four to five (4-5) credit hours selected from the AS approved course list can be found on page 70.

Total Credit Hours 60

Physics**Associate of Science Degree with Designation**

Recommended basic skills standards are

- CCR 092
- MAT 055

Physics is concerned with the nature of energy and matter, space and time. The laws of physics govern everything in the universe from the tiniest bit of matter to the largest star. Physics is a prerequisite to any in-depth study of the sciences and technologies. It leads to careers in engineering, astronomy, astronautics, medical research, geophysics, meteorology, and biophysics. This program provides the necessary background for transfer to a four-year school.

Courses marked with an asterisk [] are not currently offered at PPOC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Five (5) credit hours gtPathways Mathematics course (MA1)

MAT 201	Calculus I: MA1	5
---------	-----------------	---

Arts and Humanities

Nine (9) credit hours gtPathways Arts and Humanities courses (AH1, AH2, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260
---------	---

Social and Behavioral Sciences

Three (3) credit hours gtPathways Social and Behavioral Sciences course (SS1, SS2 or SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 225
GT-SS2:	GEO 105, GEO 106
GT-SS3:	AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Ten (10) credit hours gtPathways Natural and Physical Sciences courses (SC1)

PHY 211	Physics: Calculus-Based I w/Lab: SC1	5
PHY 212	Physics: Calculus Based II w/Lab: SC1	5

Additional Required Courses

Twenty-four (24) credit hours

CHE 111	General College Chemistry I: SC1	5
CSC 160	Computer Science I: (Language)	4
or		
CHE 112	General College Chemistry II: SC1	(5)
MAT 202	Calculus II: MA1	5
MAT 203	Calculus III: MA1	4
or		
MAT 204	Calculus III with Engineering Applications: MA1	(5)

MAT 261	Differential Equations with Engineering Applications: MA1	3
or		
MAT 265	Differential Equations: MA1	(3)
or		
MAT 266*	Differential Equations with Linear Algebra	(4)
PHY 213*	Physics III: Calculus Based	3
Total Credit Hours		60

Pre-Allied Health**Associate of Science Course of Study**

Recommended basic skills standards are

- CCR 092
- MAT 055

The degree options are designed for students applying to programs at four-year schools in Colorado for medical technology and physical therapy. These emphasize physiology, anatomy, chemistry, and physics. Either one or two years may be used for transfer credit to other schools. As specific requirements may vary among different schools, students are encouraged to consult catalogs of the colleges to which they plan to apply. Programs should be planned with academic advisors prior to beginning classes.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3
OR		
GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Oral Communication

Three (3) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
COM 220	Intercultural Communication: SS3	(3)

Mathematics

Three (3) credit hours minimum (credit hours over three (3) will be applied to the electives category). Full list of requirements can be found on page 69.

Suggested Courses

MAT 121	College Algebra: MA1	4
---------	----------------------	---

Arts and Humanities

Six (6) credit hours gtPathways Arts and Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social and Behavioral Sciences courses from two different areas (SS1, SS2 or SS3)

GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 225

GT-SS2: GEO 105, GEO 106

GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Twelve (12) credit hours. One (2 course) lab sequence in any guaranteed transfer science discipline (SC1); additional guaranteed transfer lab science course (SC1). Additional credits over 12 will be included in the electives category. Full list of requirements can be found on page 69.

Suggested Courses

BIO 111 General College Biology I w/Lab: SC1 5
PHY 111 Physics: Algebra-Based I w/Lab: SC1 5

Electives

Twenty-one (21) credit hours selected from the AS approved course list can be found on page 70. Please see your advisor for help choosing your electives.

Suggested Courses

BIO 201 Human Anatomy & Physiology I: SC1 4
BIO 202 Human Anatomy & Physiology II: SC1 4
BIO 204 Microbiology: SC1 4
CHE 111 General College Chemistry I: SC1 5

Physical Therapy Emphasis Suggested Electives

BIO 201 Human Anatomy & Physiology I: SC1 4
BIO 202 Human Anatomy & Physiology II: SC1 4
CHE 111 General College Chemistry I: SC1 5
CSC 120 Problem Solving with (Software Package) 3

Total Credit Hours 60

Pre-Med Professions

Associate of Science Course of Study

Recommended basic skills standards are

- CCR 092
- MAT 055

Health professions are necessary to provide comprehensive health care to all types of people. This program is designed to meet the needs of students who wish to go into professional health care positions in dentistry, medicine, veterinary medicine, pharmacy, and chiropractic.

Courses marked with an asterisk [] are not currently offered at PCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121 English Composition I: CO1 3
and
GT-CO2: ENG 122 English Composition II: CO2 3

OR

GT-CO2: ENG 122 English Composition II: CO2 (3)
and

GT-CO3: ENG 201 English Composition III: CO3 (3)

Oral Communication

Three (3) credit hours

COM 115 Public Speaking 3

or

COM 125 Interpersonal Communication (3)

or

COM 220 Intercultural Communication: SS3 (3)

Mathematics

Three (3) credit hours minimum (credit hours over three (3) will be applied to the electives category). Full list of requirements can be found on page 69.

Suggested Courses

MAT 201 Calculus I: MA1 5

Arts and Humanities

Six (6) credit hours gtPathways Arts and Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

GT-AH1: ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212

GT-AH2: HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268

GT-AH3: PHI 111, PHI 112, PHI 113, PHI 114, PHI 115, PHI 116, PHI 214, PHI 218, PHI 220*

GT-AH4: FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1: HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 203, HIS 205, HIS 207, HIS 208, HIS 215, HIS 218, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 259, HIS 260

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social and Behavioral Sciences courses from two different areas (SS1, SS2 or SS3)

GT-SS1: AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 215, POS 205, POS 225

GT-SS2: GEO 105, GEO 106

GT-SS3: AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Twelve (12) credit hours. One (2 course) lab sequence in any guaranteed transfer science discipline (SC1); additional guaranteed transfer lab science course (SC1). Additional credits over 12 will be included in the electives category. Full list of requirements can be found on page 69.

Suggested Courses

BIO 111	General College Biology I w/Lab: SC1	5
PHY 111	Physics: Algebra-Based I w/Lab: SC1	5

Other required courses and electives

Twenty-one (21) credit hours selected from the AS approved course list can be found on page 70. Please see your advisor for help choosing your electives.

Suggested Courses

CHE 111	General College Chemistry I: SC1	5
CHE 112	General College Chemistry II: SC1	5
PHY 112	Physics: Algebra-Based II w/Lab: SC1	5

Total Credit Hours 60

Psychology

Associate of Science Degree with Designation

Recommended basic skills standards are

- CCR 092

Psychologists study the behavior of individuals and groups and often help individuals achieve satisfactory personal adjustments. Their work includes varied activities such as teaching in colleges and universities, counseling and psychotherapy, psychological testing, planning and conducting training programs for workers, performing basic and applied research, advising on psychological methods and theories, and administering psychology programs in hospitals, clinics, research laboratories, etc. Students pursuing a bachelor's degree in psychology can fulfill lower division requirements at Pikes Peak Community College. Students should note that graduate degrees are required for most professional positions in psychology.

NOTE: Psychology majors are advised to complete PSY 101 and PSY 102.

The Associate of Science degree is designed for students who want an emphasis in natural sciences, mathematics, computer science, pre-engineering, and allied health and intend to transfer to four-year colleges and universities.

To earn the Associate of Science Degree, students must complete the following course requirements for a total of 60 semester credit hours, at least 36 of which must be Colorado State-Guaranteed Courses.

Students may follow the degree with designation in Psychology or transfer guide in Psychology to a particular four-year college/university. Consult your Faculty Advisor to assist you in determining the best pathway for you.

Courses marked with an asterisk [] are not currently offered at PPCC.*

Written Communication

Six (6) credit hours

GT-CO1: ENG 121	English Composition I: CO1	3
and		
GT-CO2: ENG 122	English Composition II: CO2	3

OR

GT-CO2: ENG 122	English Composition II: CO2	(3)
and		
GT-CO3: ENG 201	English Composition III: CO3	(3)

Mathematics

Four (4) credit hours

MAT 121	College Algebra : MA1	4
---------	-----------------------	---

Arts and Humanities

Nine (9) credit hours

PHI 111	Introduction to Philosophy: AH3	3
or		
PHI 112	Ethics: AH3	(3)

Two gtPathways courses from two different areas (AH1, AH2, AH3, AH4)

GT-AH1:	ART 110, ART 111, ART 112, ART 207, DAN 125, MUS 120, MUS 121, MUS 122, MUS 123, MUS 125, THE 105, THE 211, THE 212
GT-AH2:	HUM 103, HUM 115, HUM 121, HUM 122, HUM 123, LIT 115, LIT 201, LIT 202, LIT 205, LIT 211, LIT 212, LIT 221, LIT 222, LIT 225, LIT 259*, LIT 268
GT-AH3:	PHI 111, PHI 112, PHI 113, PHI 114, PHI 214, PHI 218, PHI 220*
GT-AH4:	FRE 211, FRE 212, GER 211, GER 212, ITA 211, ITA 212, JPN 211, JPN 212, RUS 211, RUS 212, SPA 211, SPA 212

History

Three (3) credit hours gtPathways History course (HI1)

GT-HI1:	HIS 101, HIS 102, HIS 111, HIS 112, HIS 201, HIS 202, HIS 205, HIS 207, HIS 208, HIS 215, HIS 225, HIS 235, HIS 236, HIS 243, HIS 244, HIS 245*, HIS 247, HIS 249, HIS 250, HIS 251*, HIS 255, HIS 260
---------	--

Social and Behavioral Sciences

Six (6) credit hours gtPathways Social & Behavioral courses (SS1, SS2, SS3)

GT-SS1:	AGE 102*, ECO 101*, ECO 201, ECO 202, ECO 245, POS 105, POS 111, POS 125, POS 205, POS 215, POS 225
GT-SS2:	GEO 105, GEO 106
GT-SS3:	AGR 260*, ANT 101, ANT 103, ANT 104, ANT 107, ANT 108*, ANT 201, ANT 215, ANT 250*, COM 220, CRJ 110, ETH 200, JOU 105, PSY 101, PSY 102, PSY 205, PSY 217, PSY 226, PSY 227, PSY 235, PSY 238, PSY 240*, PSY 249, SOC 101, SOC 102, SOC 205, SOC 207, SOC 215, SOC 218, SOC 220, SOC 216, SOC 231, SOC 237, WST 200, WST 225*, WST 240*

Natural and Physical Sciences

Ten (10) credit hours

BIO 111	General College Biology I w/Lab: SC1	5
CHE 111	General College Chemistry I : SC1	5

Additional Required Courses

Nine (9) credit hours

COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
PSY 101	General Psychology I: SS3	3
PSY 102	General Psychology II: SS3	3

Electives

Thirteen (13) credit hours selected from the AS approved course list can be found on page 70.

Total Credit Hours 60

Students planning to transfer to University of Colorado Denver should complete both two-semester sequences of BIO 111/112 and CHE 111/112 at Pikes Peak Community College, and electives are restricted to non-Psychology courses.

Associate of General Studies Degree (AGS)

The Associate of General Studies degree provides an educational plan for the student to create a personalized program. It allows the blending of both career and technical and transfer courses without the constraints of specialization. Transferability of the AGS depends upon the courses taken and the receiving institution. Courses must not be developmental.

Requirements

1. 60 credit hours of course work acceptable toward the degree.
2. 30 credits of general education with 15 credits from State-guaranteed courses.
3. A cumulative grade point average of 2.0 (a C average).
4. At least 15 of these credit hours must be earned from PPOC.
5. Students consult with an advisor and select 30 semester hours of open electives. Electives may include general education courses and/or career and technical courses.

Communications (minimum 3 credit hours)

ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)

Art and Humanities (minimum 3 credit hours)

ARA 111	Arabic Language I	5
ARA 112	Arabic Language II	5
ARA 211	Arabic Language III	3
ART 110	Art Appreciation: AH1	3
ART 111	Art History Ancient to Medieval: AH1	3
ART 112	Art History Renaissance to 1900: AH1	3
ART 113	History of Photography	3
ART 207	Art History – 1900 to Present: AH1	3
ART 242	Alternative Photo Processes	3
ASL 121	American Sign Language I	5
ASL 122	American Sign Language II	5
CHI 111	Chinese Language I	5
DAN 125	History of Dance I: AH1	3
FRE 111	French Language I	5
FRE 112	French Language II	5
FRE 211	French Language III: AH4	3
FRE 212	French Language IV: AH4	3
GER 111	German Language I	5
GER 112	German Language II	5
GER 211	German Language III: AH4	3
GER 212	German Language IV: AH4	3
HUM 103	Introduction to Film Art: AH2	3
HUM 115	World Mythology: AH2	3
HUM 121	Early Civilizations: AH2	3
HUM 122	Medieval to Modern: AH2	3
HUM 123	The Modern World: AH2	3
ITA 111	Italian Language I	5
ITA 112	Italian Language II	5
ITA 211	Italian Language III: AH4	3
ITA 212	Italian Language IV: AH4	3
JPN 111	Japanese Language I	5
JPN 112	Japanese Language II	5
JPN 211	Japanese Language III: AH4	3
JPN 212	Japanese Language IV: AH4	3
LIT 115	Introduction to Literature: AH2	3
LIT 125	Study of the Short Story	3
LIT 201	World Literature to 1600: AH2	3
LIT 202	World Literature after 1600: AH2	3
LIT 205	Ethnic Literature: AH2	3
LIT 211	American Literature to Civil War: AH2	3
LIT 212	American Literature After the Civil War: AH2	3

LIT 221	British Literature to 1770: AH2	3
LIT 222	British Literature since 1770: AH2	3
LIT 255	Children's Literature	3
LIT 268	Celtic Literature: AH2	3
MUS 120	Music Appreciation: AH1	3
MUS 121	Music History Medieval thru Classical Period: AH1	3
MUS 122	Music History Early Romantic Period to the Present: AH1	3
MUS 123	Survey of World Music: AH1	3
MUS 125	History of Jazz: AH1	3
PHI 111	Introduction to Philosophy: AH3	3
PHI 112	Ethics: AH3	3
PHI 113	Logic: AH3	3
PHI 114	Comparative Religions: AH3	3
PHI 115	World Religions-West: AH3	3
PHI 116	World Religions-East: AH3	3
PHI 214	Philosophy of Religion: AH3	3
PHI 218	Environmental Ethics: AH3	3
PHO 205	Professional Digital Photo I	3
RUS 111	Russian Language I	5
RUS 112	Russian Language II	5
RUS 211	Russian Language III: AH4	3
RUS 212	Russian Language IV: AH4	3
SPA 111	Spanish Language I	5
SPA 112	Spanish Language II	5
SPA 211	Spanish Language III: AH4	3
SPA 212	Spanish Language IV: AH4	3
THE 105	Introduction to the Theatre Arts: AH1	3
THE 211	Development of Theatre Greek-Renaissance: AH1	3
THE 212	Development of Theatre to Modern: AH1	3

Mathematics (minimum 3 credit hours)

MAT 103	Math for Clinical Calculations	3
MAT 107	Career Mathematics	3
MAT 112	Financial Mathematics	3
MAT 121	College Algebra: MA1	4
MAT 122	College Trigonometry: MA1	3
MAT 123	Finite Mathematics: MA1	3
MAT 125	Survey of Calculus: MA1	4
MAT 135	Introduction to Statistics: MA1	3
MAT 120	Mathematics for Liberal Arts: MA1	4
MAT 155	Integrated Math I	3
MAT 156	Integrated Math II	3
MAT 201	Calculus I: MA1	5
MAT 202	Calculus II: MA1	5
MAT 203	Calculus III: MA1	4
MAT 204	Calculus III with Engineering Applications: MA1	5

Social and Behavioral Sciences (minimum 3 credit hours)

ANT 101	Cultural Anthropology: SS3	3
ANT 103	Archaeology Laboratory: SS3	3
ANT 104	Physical Anthropology Lab: SS3	3
ANT 107	Introduction to Archaeology: SS3	3
ANT 201	Introduction to Forensic Anthropology: SS3	3
COM 115	Public Speaking	3
COM 125	Interpersonal Communication	3
COM 217	Group Communication	3
COM 220	Intercultural Communication: SS3	3
COM 225	Organizational Communication	3
CRJ 110	Introduction to Criminal Justice: SS3	3
ECO 201	Principles of Macroeconomics: SS1	3
ECO 202	Principles of Microeconomics: SS1	3
ECO 245	Issues in Environmental Economics: SS1	3
FIN 106	Consumer Economics	3
GEO 105	World Regional Geography: SS2	3
GEO 106	Human Geography: SS2	3
HIS 101	Western Civilization: Antiquity – 1650: HI1	3
HIS 102	Western Civilization: 1650 – Present: HI1	3
HIS 111	The World: Antiquity – 1650: HI1	3
HIS 112	The World: 1650 – Present: HI1	3

HIS 121	U.S. History to Reconstruction: HI1	3	GEY 135	Environmental Geology with Lab: SC1	3
HIS 122	U.S. History since the Civil War: HI1	3	HWE 100	Human Nutrition	3
HIS 203	Civil War Era in American History:HI1	3	MET 150	General Meteorology: SC1	4
HIS 205	Women in World History: HI1	3	PHY 111	Physics: Algebra-Based I w/Lab: SC1	5
HIS 207	American Environmental History: HI1	3	PHY 112	Physics: Algebra-Based II w/Lab: SC1	5
HIS 208	American Indian History: HI1	3	PHY 211	Physics: Calculus-Based I w/Lab: SC1	5
HIS 215	Women in U.S. History: HI1	3	PHY 212	Physics: Calculus-Based II w/Lab: SC1	5
HIS 218	History of Science and Technology:HI1	3	SCI 155	Integrated Science I: SC1	4
HIS 225	Colorado History: HI1	3	SCI 156	Integrated Science II: SC1	4
HIS 235	History of the American West: HI1	3			
HIS 236	U.S. History Since 1945: HI1	3	Additional General Education Electives		
HIS 243	History of Modern China: HI1	3	BUS 115	Introduction to Business	3
HIS 244	History of Latin America: HI1	3	CIS 115	Introduction to Computer Information Systems	3
HIS 247	20th Century World History: HI1	3	CIS 118	Introduction to PC Applications	3
HIS 249	History of Islamic Civilization: HI1	3	CSC 105	Computer Literacy	3
HIS 250	African American History: HI1	3	CSC 120	Problem Solving with (Software Package)	3
HIS 255	The Middle Ages: HI1	3	ENG 122	English Composition II: CO2	3
HIS 259	Modern Middle East:HI1	3	MAT 112	Financial Mathematics	3
HIS 260	U.S. Foreign Relations History: HI1	3			
JOU 105	Introduction to Mass Media: SS3	3	Electives (30 credit hours)		
POS 105	Introduction to Political Science: SS1	3			
POS 111	American Government: SS1	3			
POS 125	American State & Local Government: SS1	3			
POS 205	International Relations: SS1	3			
POS 215	Current Political Issues: SS1	3			
POS 225	Comparative Government: SS1	3			
PSY 101	General Psychology I: SS3	3			
PSY 102	General Psychology II: SS3	3			
PSY 106	Human Relations	3			
PSY 112	Psychology of Adjustment	3			
PSY 205	Psychology of Gender: SS3	3			
PSY 217	Human Sexuality: SS3	3			
PSY 226	Social Psychology: SS3	3			
PSY 227	The Psychology of Death & Dying: SS3	3			
PSY 235	Human Growth & Development: SS3	3			
PSY 238	Child Development: SS3	3			
PSY 249	Abnormal Psychology: SS3	3			
SOC 101	Introduction to Sociology I: SS3	3			
SOC 102	Introduction to Sociology II: SS3	3			
SOC 205	Sociology of Family Dynamics: SS3	3			
SOC 207	Environmental Sociology: SS3	3			
SOC 215	Contemporary Social Problems: SS3	3			
SOC 218	Sociology of Diversity: SS3	3			
SOC 220	Sociology of Religion: SS3	3			
SOC 231	The Sociology of Deviant Behavior: SS3	3			
SOC 237	Sociology of Death & Dying: SS3	3			
WST 200	Introduction to Women's Studies	3			
Physical and Life Sciences (minimum 3 credit hours)					
AGY 240	Introductory Soil Science: SC1	4			
ANT 111	Biological Anthropology w/Lab: SC1	4			
AST 101	Astronomy I with Lab: SC1	4			
AST 102	Astronomy II: SC1	4			
BIO 104	Biology: A Human Approach: SC1	4			
BIO 105	Science of Biology: SC1	4			
BIO 111	General College Biology I w/Lab: SC1	5			
BIO 112	General College Biology II w/Lab: SC1	5			
BIO 201	Human Anatomy & Physiology I: SC1	4			
BIO 202	Human Anatomy & Physiology II: SC1	4			
BIO 220	General Zoology: SC1	5			
BIO 221	Botany with Lab: SC1	5			
BIO 224	Genetics: SC1	4			
CHE 101	Introduction to Chemistry I: SC1	5			
CHE 102	Introduction to Chemistry II: SC1	5			
CHE 111	General College Chemistry I: SC1	5			
CHE 112	General College Chemistry II: SC1	5			
GEO 111	Physical Geography – Landforms: SC1	4			
GEO 112	Physical Geography – Weather & Climate: SC1	4			
GEY 111	Physical Geology with Lab: SC1	4			
GEY 112	Historical Geology with Lab: SC1	4			

Associate of Applied Science Degree (AAS) and Certificates of Achievement

The two-year AAS degree provides career skills to enable students to enter the job market after graduation, retrain in a new career, or upgrade employment skills. Occupational courses are designed to meet these needs instead of transferring to four-year institutions; however, many four-year institutions accept some of these courses. Check with the other college or university if planning to transfer these courses.

Occupational training is available in fewer than two years through our certificate programs. Certificates of Achievement are awarded for several types of training outlined in the next section of this catalog. Certificate programs vary in length from one to three academic terms.

AAS Requirements

1. A minimum of 60 credit hours in a prescribed program of study with a cumulative grade point average of 2.0 (a C average). At least 15 of these credit hours must be earned from PPCC. See specific degree program for additional requirements.
2. A minimum of 15 credit hours (of the 60 total) of general education courses from list will be chosen by the faculty for specific degrees.
3. Degree is intended to prepare students to enter skilled and/or paraprofessional occupations and is not intended for transfer toward a baccalaureate degree; however, some courses may transfer to some institutions. Academic advisors should be consulted for further information.
4. Courses used as electives in meeting degree requirements and taken in addition to those courses specified in a particular program are not accepted toward this degree without approval of the chief instructional officer. Approval is given only when it is appropriate to the educational objectives of a student.
5. A maximum of four (4) credit hours in any combination of PED activity courses.
6. Specific degree requirements are listed with each program in the next section of this catalog.
7. Courses numbered below 100 normally may not apply toward degrees.

Certificates of Achievement Requirements

1. Satisfactory completion of a prescribed program of study with a cumulative grade point average of 2.0 (a C average).
2. A minimum of six (6) credit hours in the area of specialization earned from PPCC for programs requiring six (6) hours or more.
3. Courses numbered below 100 normally may not apply toward certificate.

General Education Electives for AAS Degrees and Certificates

These courses are approved as meeting the general education electives requirements for the AAS degree.

Communication

COM 115	Public Speaking	3
COM 125	Interpersonal Communication	3
COM 217	Group Communication	3
COM 225	Organizational Communication	3
ENG 115	Technical English & Communication	3
ENG 121	English Composition I: CO1	3
ENG 122	English Composition II: CO2	3
ENG 131	Technical Writing I	3
ENG 132	Technical Writing II	3

Art and Humanities

ARA 111	Arabic Language I	5
ARA 112	Arabic Language II	5
ARA 211	Arabic Language III	3
ART 110	Art Appreciation: AH1	3
ART 111	Art History Ancient to Medieval: AH1	3
ART 112	Art History Renaissance to 1900: AH1	3
ART 113	History of Photography	3
ART 242	Alternative Photo Processes	3
ASL 121	American Sign Language I	5
ASL 122	American Sign Language II	5
CHI 111	Chinese Language I	5
DAN 125	History of Dance I: AH1	3
FRE 101	Conversational French	3
FRE 111	French Language I	5
FRE 112	French Language II	5
FRE 211	French Language III: AH4	3
FRE 212	French Language IV: AH4	3
GER 111	German Language I	5
GER 112	German Language II	5
GER 211	German Language III: AH4	3
GER 212	German Language IV: AH4	3
HUM 103	Introduction to Film Art: AH2	3
HUM 115	World Mythology: AH2	3
HUM 121	Early Civilizations: AH2	3
HUM 122	Medieval to Modern: AH2	3
HUM 123	The Modern World: AH2	3
ITA 111	Italian Language I	5
ITA 112	Italian Language II	5
ITA 211	Italian Language III: AH4	3
ITA 212	Italian Language IV: AH4	3
JPN 101	Conversational Japanese I	3
JPN 111	Japanese Language I	5
JPN 112	Japanese Language II	5
JPN 211	Japanese Language III: AH4	3
JPN 212	Japanese Language IV: AH4	3
LIT 115	Introduction to Literature: AH2	3
LIT 125	Study of the Short Story	3
LIT 201	World Literature to 1600: AH2	3
LIT 202	World Literature after 1600: AH2	3
LIT 205	Ethnic Literature: AH2	3
LIT 211	American Literature to Civil War: AH2	3
LIT 212	American Literature After the Civil War: AH2	3
LIT 221	British Literature to 1770: AH2	3
LIT 222	British Literature since 1770: AH2	3
LIT 268	Celtic Literature: AH2	3
MUS 100	Introduction to Music Theory	3
MUS 105	Introduction to Computer Applications	3
MUS 120	Music Appreciation: AH1	3
MUS 121	Music History Medieval thru Classical Period: AH1	3
MUS 122	Music History Early Romantic Period to the Present: AH1	3

PHI 111	Introduction to Philosophy: AH3	3	ECO 245	Issues in Environmental Economics: SS1	3
PHI 112	Ethics: AH3	3	GEO 105	World Regional Geography: SS2	3
PHI 113	Logic: AH3	3	GEO 106	Human Geography: SS2	3
PHI 114	Comparative Religions: AH3	3	HIS 101	Western Civilization: Antiquity–1650: HI1	3
PHI 115	World Religions-West: AH3	3	HIS 102	Western Civilization: 1650–Present: HI1	3
PHI 116	World Religions-East: AH3	3	HIS 111	The World: Antiquity–1650: HI1	3
PHI 214	Philosophy of Religion: AH3	3	HIS 112	The World: 1650–Present: HI1	3
PHO 205	Professional Digital Photo I	3	HIS 121	U.S. History to Reconstruction: HI1	3
RUS 111	Russian Language I	5	HIS 122	U.S. History since the Civil War: HI1	3
RUS 112	Russian Language II	5	HIS 203	Civil War Era in American History: HI1	3
RUS 211	Russian Language III: AH4	3	HIS 208	American Indian History: HI1	3
RUS 212	Russian Language IV: AH4	3	HIS 218	History of Science and Technology: HI1	3
SPA 101	Conversational Spanish I	3	HIS 225	Colorado History: HI1	3
SPA 102	Conversational Spanish II	3	HIS 235	History of the American West: HI1	3
SPA 109	Spanish for Travelers	2	HIS 236	U.S. History Since 1945: HI1	3
SPA 111	Spanish Language I	5	HIS 243	History of Modern China: HI1	3
SPA 112	Spanish Language II	5	HIS 247	20th Century World History: HI1	3
SPA 115	Spanish for the Professional I	3	HIS 249	History of Islamic Civilization: HI1	3
SPA 211	Spanish Language III: AH4	3	HIS 255	The Middle Ages: HI1	3
SPA 212	Spanish Language IV: AH4	3	HIS 259	Modern Middle East: HI1	3
THE 105	Introduction to Theatre Arts: AH1	3	HIS 260	U.S. Foreign Relations History: HI1	3
THE 211	Development of Theatre Greek-Renaissance: AH1	3	JOU 105	Introduction to Mass Media: SS3	3
THE 212	Development of Theatre to Modern: AH1	3	POS 105	Introduction to Political Science: SS1	3
Mathematics and Physical and Life Sciences					
ANT 111	Biological Anthropology with Lab: SC1	4	POS 111	American Government: SS1	3
AST 101	Astronomy I with Lab: SC1	4	POS 125	American State & Local Government: SS1	3
AST 102	Astronomy II: SC1	4	POS 205	International Relations: SS1	3
BIO 104	Biology: A Human Approach: SC1	4	POS 215	Current Political Issues: SS1	3
BIO 105	Science of Biology: SC1	4	PSY 100	Psychology of Workplace Relationships	3
BIO 106	Basic Anatomy & Physiology	4	PSY 101	General Psychology I: SS3	3
BIO 111	General College Biology I w/Lab: SC1	5	PSY 102	General Psychology II: SS3	3
BIO 112	General College Biology II w/Lab: SC1	5	PSY 106	Human Relations	3
BIO 148	Basic Ecology	4	PSY 112	Psychology of Adjustment	3
BIO 201	Human Anatomy & Physiology I: SC1	4	PSY 235	Human Growth & Development: SS3	3
BIO 202	Human Anatomy & Physiology II: SC1	4	SOC 101	Introduction to Sociology I: SS3	3
BIO 204	Microbiology: SC1	4	SOC 102	Introduction to Sociology II: SS3	3
BIO 224	Genetics: SC1	4	SOC 205	Sociology of Family Dynamics: SS3	3
CHE 101	Introduction to Chemistry I: SC1	5	SOC 207	Environmental Sociology: SS3	3
CHE 102	Introduction to Chemistry II: SC1	5	SOC 218	Sociology of Diversity: SS3	3
CHE 111	General College Chemistry I: SC1	5	SOC 220	Sociology of Religion: SS3	3
CHE 112	General College Chemistry II: SC1	5	SOC 223	Chicanos in a Changing Society	3
ENV 101	Introduction to Environmental Science: SC1	4	SOC 231	The Sociology of Deviant Behavior: SS3	3
GEO 111	Physical Geography–Landforms: SC1	4	WST 200	Introduction to Women's Studies: SS3	3
GEY 111	Physical Geology with Lab: SC1	4	Other General Electives		
GEY 112	Historical Geology with Lab: SC1	4	BUS 115	Introduction to Business	3
GEY 135	Environmental Geology with Lab: SC1	3	CIS 115	Introduction to Computer Information Systems	3
HWE 100	Human Nutrition	3	CIS 118	Introduction to PC Applications	3
HWE 103	Community First Aid & CPR	1	CSC 120	Problem Solving with (Software Package)	3
MAT 103	Math for Clinical Calculations	3	REC 100	Introduction to Recreation	2
MAT 107	Career Math	3			
MAT 109	Geometry	3			
MAT 112	Financial Mathematics	3			
MAT 121	College Algebra: MA1	4			
MAT 135	Introduction to Statistics: MA1	3			
MAT 204	Calculus III with Engineering Applications: MA1	5			
PHY 111	Physics: Algebra-Based I w/Lab: SC1	5			
PHY 112	Physics: Algebra-Based II w/Lab: SC1	5			
Social and Behavioral Sciences					
ANT 101	Cultural Anthropology: SS3	3			
ANT 104	Physical Anthropology Lab: SS3	3			
ANT 107	Introduction to Archaeology: SS3	3			
ANT 215	Indians of North America: SS3	3			
ANT 221	Exploring Other Cultures I	3			
ANT 222	Exploring Other Cultures II	3			
ANT 225	Anthropology of Religion	3			
ANT 260	Sex, Gender and Culture	3			
ECO 201	Principles of Macroeconomics: SS1	3			
ECO 202	Principles of Microeconomics: SS1	3			

Associate of Applied Sciences Degree Programs and Certificates

Accounting

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

Graduates of this program are prepared to enter an accounting career. Accountants work for business, industry, and various governmental agencies.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
COM 115	Public Speaking	3
ECO 201	Principles of Macroeconomics: SS1	3
ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)
MAT 112	Financial Mathematics	3
		<hr/> 15

Other Course Requirements

ACC 115	Payroll Accounting	3
ACC 121	Accounting Principles I	4
ACC 122	Accounting Principles II	4
ACC 125	Computerized Accounting	3
ACC 131	Income Tax	3
or		
ACC 132	Tax Help Colorado	(2)
and		
ACC 133	Tax Help Colorado Practicum	(1)
ACC 211	Intermediate Accounting I	4
ACC 226	Cost Accounting	3
BUS 115	Introduction to Business	3
BUS 216	Legal Environment of Business	3
BUS 217	Business Communication & Report Writing	3
CIS 155	PC Spreadsheet Concepts	3
Elective	Choose 9-10 hours from the list below	9-10
		<hr/> 45-46
Total Credit Hours		60-61

Electives

ACC 135	Spreadsheet Applications for Accounting	3
ACC 212	Intermediate Accounting II	4
ACC 216	Governmental & Not-for-Profit Accounting	3
ACC 287	Cooperative Education	3
BUS 226	Business Statistics	3
CIS 267	Management of Information Systems	3
ECO 202	Principles of Microeconomics: SS1	3
FIN 201	Principles of Finance	3
MAN 128	Human Relations in Organizations	3
MAN 200	Human Resource Management	3
MAN 226	Principles of Management	3
MAR 216	Principles of Marketing	3
PHI 112	Ethics: AH3	3

Certificates

Accounting

Gainful Employment Disclosure is located at

<http://ppcc.edu/app/catalog/ge/accounting/accounting-gedt/>.

The accounting certificate program is designed to allow students to become proficient in using the computer for basic bookkeeping and spreadsheet applications. Students will also be prepared to accomplish normal office procedures.

Required Courses

ACC 115	Payroll Accounting	3
ACC 121	Accounting Principles I	4
ACC 122	Accounting Principles II	4
ACC 125	Computerized Accounting	3
BUS 115	Introduction to Business	3
CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
CIS 155	PC Spreadsheet Concepts	3
MAT 112	Financial Mathematics	3
Elective	Choose three to four (3-4) hours from list below	3-4
		<hr/>
Total Credit Hours		29-30

Electives

Choose 3-4 hours from the following courses

ACC 131	Income Tax	3
or		
ACC 132	Tax Help Colorado	(2)
and		
ACC 133	Tax Help Colorado Practicum	(1)
ACC 135	Spreadsheet Applications for Accounting	3
ACC 287	Cooperative Education	3
BTE 100	Computer Keyboarding	1
BTE 108	Ten-Key by Touch	1
BUS 216	Legal Environment of Business	3
BUS 217	Business Communication & Report Writing	3
COM 115	Public Speaking	3
ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)
FIN 106	Consumer Economics	3
MAN 116	Principles of Supervision	3

Bookkeeping Applications

ACC 115	Payroll Accounting	3
ACC 121	Accounting Principles I	4
or		
ACC 101	Fundamentals of Accounting	(3)
and		
BTE 108	Ten-Key by Touch	(1)
ACC 125	Computerized Accounting	3
BUS 115	Introduction to Business	3
CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
Total Credit Hours		16

Allied Health

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

This degree program is intended to introduce students to a variety of potential career paths in allied health. Students will complete certifications in several areas including: CNA and EMT-Basic. Students are given the opportunity to progress to higher levels of study in multiple medical fields.

General Education Courses

CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
COM 125	Interpersonal Communication	3
	or	
COM 225	Organizational Communication	(3)
ENG 121	English Composition: CO1	3
	or	
ENG 131	Technical Writing I	(3)
MAT 107	Career Math	3
PSY 101	General Psychology I: SS3	3
SPA 115	Spanish for the Professional I: Medical	3
		<hr/> 18

Other Course Requirements

EMS 121	EMT Fundamentals	3
EMS 122	EMT Medical Emergencies	4
EMS 123	EMT Trauma Emergencies	2
EMS 124	EMT Special Considerations	2
EMS 170	EMT Basic Clinical	1
HPR 101	Customer Service in Healthcare	2
HPR 102	CPR for Professionals	0.5
HPR 112	Phlebotomy	4
HPR 113	Advanced Phlebotomy	4
HPR 140	Orientation to Health Careers (Leadership)	6
HPR 178	Medical Terminology	2
HPR 208	Advanced Medical Terminology	2
MOT 125	Basic Medical Sciences I	3
MOT 133	Basic Medical Sciences II	3
MOT 135	Basic Medical Sciences III	3
NUA 101	Certified Nurse Aide Health Care Skills	4
NUA 170	Nurse Assistant Clinical Experience	1
NUA 171	Advanced Nurse Aide Clinical	1
		<hr/> 47.5

Total Credit Hours 65.5

Architectural Engineer / Construction Management

Associate of Applied Science Degree

Pending State Approval

Recommended basic skills standards are

- CCR 092
- MAT 050

This program prepares students to be technical assistants in architectural or construction firms or to be building product representatives assisting architects, engineers, contractors, manufacturers, and other professionals connected with the building industry.

All students should schedule appointments with Architectural Engineer / Construction Management program advisors before enrolling in class.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
COM 115	Public Speaking	3
	or	
COM 225	Organizational Communication	(3)
ENG 131	Technical Writing I	3
MAT 107	Career Math or higher	3
	Three (3) additional credit hours from list below	3
		<hr/> 15

Select three (3) credit hours

PSY 100	Psychology of Workplace Relationships	3
	or	
PSY 101	General Psychology I: SS3	(3)
SPA 101	Conversational Spanish I	3

Course requirements for all emphasis areas

AEC 102	Residential Construction Drawing	4
AEC 104	Architectural Drawing Theory	4
AEC 107	Print Reading Residential/Commercial	3
AEC 121	Construction Material/Systems	3
AEC 122	Construction Practices & Documents	2
AEC 218	Sustainable Building Systems	3
AEC 236	International Building Codes	3
CAD 101	Computer Aided Drafting I	3
CAD 224	Revit Architecture	3
		<hr/> 28

Emphasis Areas

Architectural Engineer Technician

Students choosing this option are trained to be paraprofessionals in architectural, engineering, and construction offices with primary skills of architectural drawing and construction assembly technology.

AEC 123	Commercial Construction Drawing	4
AEC 125	History of Architecture	3
AEC 225	Architectural Design & Development	4
CAD 227	Advanced Revit Architecture	3
	Three (3) credit hours Technical Elective Course	3
		<hr/> 17

Total Hours for Architectural Engineer Technician Degree Emphasis 60

Construction Management Technician

Students choosing this option will primarily work for a construction company in an administrative capacity doing estimating, scheduling, project management, construction assembly technology, and job-site problem solving.

AEC 216	Construction Estimating	3
AEC 220	Surveying	3
AEC 226	Construction Scheduling	3
AEC 232	Construction Project Management	3
CAD 227	Advanced Revit Architecture	3
OSH 126	30-HR Construction Safety	3
		<hr/> 18

Total Hours for Construction Management Technician Degree Emphasis 61

Product Representative

Students choosing this business-oriented option will learn basic selling and marketing techniques. Other items covered include estimating, bid submittals, and furnishing technical information to professionals in the building industry.

AEC 216	Construction Estimating	3
AEC 226	Construction Scheduling	3
BUS 115	Introduction to Business	3
BUS 216	Legal Environment of Business	3
MAR 111	Principles of Sales	3
MAR 216	Principles of Marketing	3
Three (3) credit hours from AAS Gen Ed list		3
or		
Three (3) credit hours Technical Elective Course		(3)

Total Hours for Product Representative Degree Emphasis **64**

Recommended Technical Electives

AEC 280	Internship	3
CAD 115	Sketchup	3
CAD 219	3DS Max	3

Certificates

Architecture Professional

AEC 107	Print Reading Residential/Commercial	3
AEC 121	Construction Material/Systems	4
AEC 123	Commercial Construction Drawing	4
AEC 125	History of Architecture	3
AEC 225	Architectural Design & Development	4
AEC 236	International Building Codes	3
		<u>20</u>

Basic AEC Drafting

AEC 102	Residential Construction Drawing	4
AEC 104	Architectural Drawing Theory	4
AEC 107	Print Reading Residential/Commercial	3
CAD 101	Computer Aided Drafting I	3
CAD 224	Revit Architecture	3
		<u>17</u>

Construction Professional

AEC 107	Print Reading Residential/Commercial	3
AEC 121	Construction Material/Systems	4
AEC 216	Construction Estimating	3
AEC 220	Surveying	3
AEC 226	Construction Scheduling	3
AEC 236	International Building Codes	3
OSH 126	30-HR Construction Safety	3
		<u>21</u>

Automotive Collision Technology

Associate of Applied Science Degree

Recommended basic skills standards are

- AAA 109
- CCR 092
- MAT 050

This program prepares students to enter into, or upgrade skills in, auto collision repair. Students have the opportunity to develop skills in non-structural metal repair, structural repair, and all aspects of refinishing. Students who complete a certificate program are prepared to enter into a specific area of the collision repair industry. The degree program provides students with a broader background and training in all areas of auto collision repair. Students completing either a degree or certificate program

should have little difficulty in finding employment. The program utilizes late-model vehicles for training purposes and is certified by the National Institute for Automotive Service Excellence (ASE).

Students must provide their own work clothes and hand tools. A complete set of collision repair tools should be purchased before job entry.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

Additionally, students should work with a program faculty advisor to ensure that they are taking the correct classes for their program.

General Education Courses

CIS 118	Introduction to PC Applications	3
COM 225	Organizational Communication	3
MAT 107	Career Math	3
General Education Electives approved list can be found on page 80		6
		<u>15</u>

Automotive Collision Technology Courses

ACT 101	Introduction to Automotive Collision Technology	4
ACT 111	Metal Welding & Cutting I	3
ACT 121	Non-Structural Repair Preparation	3
ACT 122	Panel Repair & Replacements	3
ACT 123	Metal Finishing & Body Filling	3
ACT 131	Structural Damage Diagnosis	3
ACT 132	Structural Damage Repair	3
ACT 142	Surface Preparation I	2
ACT 143	Spray Equipment Operation	2
ACT 144	Refinishing I	2
ACT 151	Plastics & Adhesives I	1
ACT 180	Automotive Collision Repair Internship Level I	2
ACT 181	Automotive Collision Repair Level II Internship	2
ACT 211	Metal Welding & Cutting II	2
ACT 221	Movable Glass & Hardware	2
ACT 231	Advanced Structural Damage Diagnosis & Repair	3
ACT 232	Fixed Glass	2
ACT 241	Paint Defects - Causes & Cures	3
ACT 242	Surface Preparation II	2
ACT 243	Refinishing II	2
ACT 244	Final Detail	2
ACT 251	Plastics & Adhesives II	1
		<u>52</u>

Total Credit Hours **67**

Certificates

Gainful Employment Disclosure located at <http://ppcc.edu/app/catalog/ge/automotive-collision-technology/automotive-collision-technology-gedt>.

Automotive Plastics Repair Technician

ACT 101	Introduction to Automotive Collision Technology	4
ACT 121	Non-Structural Repair Preparation	3
ACT 151	Plastics & Adhesives I	1
ACT 242	Surface Preparation II	2
ACT 243	Refinishing II	2
ACT 251	Plastics & Adhesives II	1
		<u>13</u>

Total Credit Hours **13**

Non-Structural Repair Technician

ACT 101	Introduction to Automotive Collision Technology	4
ACT 111	Metal Welding & Cutting I	3
ACT 121	Non-Structural Repair Preparation	3
ACT 122	Panel Repair & Replacements	3
ACT 123	Metal Finishing & Body Filling	3
ACT 180	Automotive Collision Repair Internship Level I	2

ACT 211	Metal Welding & Cutting II	2
ACT 221	Movable Glass & Hardware	2
Total Credit Hours		22

Refinish Prep Technician

ACT 101	Introduction to Automotive Collision Technology	4
ACT 142	Surface Preparation I	2
ACT 143	Spray Equipment Operation	2
ACT 144	Refinishing I	2
ACT 244	Final Detail	2
Total Credit Hours		12

Refinish Technician

ACT 181	Automotive Collision Repair Level II Internship	2
ACT 241	Paint Defects – Causes & Cures	3
ACT 242	Surface Preparation II	2
ACT 243	Refinishing II	2
Total Credit Hours		9

R & I Technician

ACT 101	Introduction to Automotive Collision Technology	4
ACT 121	Non-Structural Repair Preparation	3
ACT 221	Movable Glass & Hardware	2
Total Credit Hours		9

Structural Repair Technician

ACT 131	Structural Damage Diagnosis	3
ACT 132	Structural Damage Repair	3
ACT 231	Advanced Structural Damage Diagnosis & Repair	3
ACT 232	Fixed Glass	2
Total Credit Hours		11

Automotive Technology

Associate of Applied Science Degree

Recommended basic skills standards are:

- AAA 109
- CCR 092
- MAT 050

The Automotive and Diesel Technology programs lead to an interesting and challenging career in the repair, service, sales, and supply fields. Two degrees are offered in this program: Automotive Technology and Automotive Technology with a Diesel emphasis. The Automotive Technology Degree has a specific focus on automotive service and repair. The Automotive Technology/Diesel emphasis focus is on light duty diesel powered vehicles. i.e.; automotive diesel and light trucks. Students also have the option to pursue a variety of automotive and diesel certificates.

Students entering this program should exhibit the following qualities: mechanical aptitude, ability to read and follow detailed instructions, enjoy precision work and problem solving.

Students are required to provide appropriate work clothing, safety glasses, and a basic set of hand tools. (See automotive program advisors for specifics)

General Education Courses

CIS 118	Introduction to PC Applications	3
COM 225	Organizational Communication	3
MAT 107	Career Math	3
General Education Electives approved list can be found on page 80		6
		15

Elective hours must meet general education requirements. See list of approved general education courses. Students must consult with advisors for selection of elective courses to enhance their employability.

Automotive Technology

ASE 102	Introduction to the Automotive Shop	2
ASE 110	Brakes I	2
ASE 111	Automotive Brake Service II	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 130	General Engine Diagnosis	2
ASE 132	Ignition System Diagnosis & Repair	2
ASE 134	Automotive Fuel & Emissions Systems	2
ASE 140	Suspension & Steering I	2
ASE 141	Suspension & Steering II	2
ASE 150	Manual Drive Train & Axle Maintenance	2
ASE 151	Automotive Manual Transmission/Transaxles & Clutches	2
ASE 152	Manual Transmission, Transaxles & Clutches II	2
ASE 160	Automotive Engine Repair	2
ASE 161	Engine Repair & Rebuild	3
ASE 210	Automotive Power & ABS Brake Systems	2
ASE 221	Auto/Diesel Body Electrical	4
ASE 231	Automotive Computers & Ignition Systems	2
ASE 233	Auto Fuel Injection & Emissions Systems II	4
ASE 235	Driveability Diagnosis	2
ASE 240	Suspension & Steering II	2
ASE 250	Automatic Transmission/Transaxle Service	1
ASE 265	Heating & Air Conditioning Systems	4
		52

Total Hours for Automotive Technology Degree Emphasis 67

Automotive Technology/Diesel

ASE 110	Brakes I	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 132	Ignition System Diagnosis & Repair	2
ASE 140	Suspension & Steering I	2
ASE 151	Automotive Manual Transmission/Transaxles & Clutches	2
ASE 161	Engine Repair & Rebuild	3
ASE 210	Automotive Power & ABS Brake Systems	2
ASE 231	Automotive Computers & Ignition Systems	2
ASE 233	Auto Fuel Injection & Emissions Systems II	4
ASE 240	Suspension & Steering II	2
ASE 265	Heating & Air Conditioning Systems	4
DPM 100	Introduction to Diesel Mechanics	2
DPM 101	Diesel Shop Orientation	2
DPM 103	Diesel Engines I	4
DPM 106	Fuel Injection	3
DPM 107	Fundamentals of Four-Wheel & Front-Wheel Drive	4
DPM 203	Diesel Engines II	4
DPM 210	Air Induction & Engine Analysis	2
DPM 222	H/D Lighting & Instrumentation	3
		53

Total Hours for Automotive Technology/Diesel Degree Emphasis 68

Certificates

Air Conditioning & Heating

ASE 102	Introduction to the Automotive Shop	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 265	Heating & Air Conditioning Systems	4
Total Credit Hours		10

Automatic Transmissions

ASE 102	Introduction to the Automotive Shop	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 250	Automatic Transmission/Transaxle Service	1
ASE 251	Automatic Transmission & Transaxle Repair	3

Total Credit Hours **10**

Automotive Brakes

ASE 102	Introduction to the Automotive Shop	2
ASE 110	Brakes I	2
ASE 111	Automotive Brake Service II	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 210	Automotive Power & ABS Brake Systems	2

Total Credit Hours **12**

Automotive Electricity

ASE 102	Introduction to the Automotive Shop	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 220	Specialized Electronics Training	2
ASE 221	Auto/Diesel Body Electrical	4
ASE 231	Automotive Computers & Ignition Systems	2

Total Credit Hours **14**

Automotive Parts

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/automotive-technology/automotive-parts-gedt>.

ASE 102	Introduction to the Automotive Shop	2
ASE 110	Brakes I	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 132	Ignition System Diagnosis & Repair	2
ASE 134	Automotive Fuel & Emissions Systems	2
ASE 140	Suspension & Steering I	2
ASE 150	Manual Drive Train & Axle Maintenance	2
ASE 151	Manual Transmission/Transaxles & Clutches	2
ASE 152	Manual Transmission, Transaxles & Clutches II	2
ASE 160	Automotive Engine Repair	2
ASE 161	Engine Repair & Rebuild	3
ASE 201	Parts Management	1
ASE 210	Automotive Power & ABS Brake Systems	2
ASE 221	Auto/Diesel Body Electrical	4
ASE 231	Automotive Computers & Ignition Systems	2
ASE 233	Auto Fuel Injection & Emissions Systems II	4
ASE 240	Suspension & Steering II	2
ASE 265	Heating & Air Conditioning Systems	4

Total Credit Hours **44**

Automotive Technology

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/automotive-technology/automotive-technology-gedt>.

ASE 102	Introduction to the Automotive Shop	2
ASE 110	Brakes I	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 132	Ignition System Diagnosis & Repair	2
ASE 134	Automotive Fuel & Emissions Systems	2
ASE 140	Suspension & Steering I	2
ASE 150	Manual Drive Train & Axle Maintenance	2
ASE 151	Automotive Manual Transmission/Transaxles & Clutches	2

ASE 152	Manual Transmission, Transaxles & Clutches II	2
ASE 160	Automotive Engine Repair	2
ASE 161	Engine Repair & Rebuild	3
ASE 210	Automotive Power & ABS Brake Systems	2
ASE 220	Specialized Electronics Training	2
ASE 221	Auto/Diesel Body Electrical	4
ASE 231	Automotive Computers & Ignition Systems	2
ASE 233	Auto Fuel Injection & Emissions Systems II	4
ASE 240	Suspension & Steering II	2
ASE 265	Heating & Air Conditioning Systems	4

Total Credit Hours **45**

Engine Performance

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/automotive-technology/engine-performance-gedt>.

ASE 102	Introduction to the Automotive Shop	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 130	General Engine Diagnosis	2
ASE 132	Ignition System Diagnosis & Repair	2
ASE 134	Automotive Fuel & Emissions Systems	2
ASE 160	Automotive Engine Repair	2
ASE 161	Engine Repair & Rebuild	3
ASE 220	Specialized Electronics Training	2
ASE 221	Auto/Diesel Body Electrical	4
ASE 231	Automotive Computers & Ignition Systems	2
ASE 233	Auto Fuel Injection & Emissions Systems II	4
ASE 235	Driveability Diagnosis	2

Total Credit Hours **31**

Gasoline Engine Repair

ASE 102	Introduction to the Automotive Shop	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 160	Automotive Engine Repair	2
ASE 161	Engine Repair & Rebuild	3

Total Credit Hours **11**

Manual Drivetrain

ASE 102	Introduction to the Automotive Shop	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 150	Manual Drive Train & Axle Maintenance	2
ASE 151	Automotive Manual Transmission/Transaxles & Clutches	2
ASE 152	Manual Transmission, Transaxles & Clutches II	2

Total Credit Hours **12**

Suspension and Steering

ASE 102	Introduction to the Automotive Shop	2
ASE 120	Basic Automotive Electricity	2
ASE 123	Starting & Charging System	2
ASE 140	Suspension & Steering I	2
ASE 240	Suspension & Steering II	2

Total Credit Hours **10**

Business Administration

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

Students may select from various programs to meet their specific career goals. Certificate programs can be completed in one year or less in the areas of Administrative Assistant, Business Foundations, Customer Service, Management and Supervision.

Two-year associate of applied science degrees are available in several emphasis areas as detailed in the following section of this catalog. Transfer degrees intended to prepare the student for transfer to four-year institutions are also offered. Business students interested in transferring to a four-year university should refer to the Associate of Arts Degree in Business on page 49.

Faculty advisors are available to assist students in evaluating the various options. Call 502-3300 at the Centennial Campus or 502-3215 at the Rampart Range Campus for program information or to schedule a personal appointment with a program faculty advisor.

This degree program is designed for students who wish to pursue a career in business with a specific area of emphasis.

Students must also have demonstrated proficiency equivalent to the completion of BTE 100.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Requirements

CIS 118	Introduction to PC Applications	3
COM 115	Public Speaking	3
ECO 201	Principles of Macroeconomics: SS1	3
	or	
ECO 202	Principles of Microeconomics: SS1	(3)
ENG 121	English Composition I: CO1	3
MAT 112	Financial Mathematics	3
		<u>15</u>

Business Foundation course requirements for all emphasis areas

ACC 101	Fundamentals of Accounting	3
	or	
ACC 121	Accounting Principles I	(4)
BUS 115	Introduction to Business	3
FIN 106	Consumer Economics	3
MAN 128	Human Relations in Organizations	3
MAR 160	Customer Service	3
		<u>15-16</u>

NOTE: Completion of the 31.5-32.5 hours in General Education and Business Foundation courses earns the student a Business Foundations Certificate.

Emphasis Areas

Administrative Support

The Administrative Support Emphasis is designed to prepare students to become office professionals in positions that require skills in computer technology, communication skills, customer service, and office applications.

BTE 102	Keyboarding Applications I	2
BTE 108	Ten-Key by Touch	1
BTE 111	Keyboarding Speedbuilding I	2
BTE 166	Business Editing Skills	3
BUS 217	Business Communication & Report Writing	3

CIS 107	Voice Recognition: Dragon	1
CIS 135	Complete PC Word Processing	3
CIS 155	PC Spreadsheets Concepts	3
CIS 165	Complete Presentation Graphics	3
MAN 246	Critical Issues in Marketing & Management	3
Electives	Choose six (6) hours from the list below	6
		<u>30</u>

Total Credit Hours for Administrative Support Emphasis 60-61

Administrative Support Emphasis Electives

ACC 115	Payroll Accounting	3
ACC 125	Computerized Accounting	3
BTE 187	Cooperative Education/Internship	3
CIS 124	Introduction to Operating Systems	3
CIS 145	Complete PC Database	3
CWB 110	Complete Web Authoring	3
MAN 116	Principles of Supervision	3
MAN 200	Human Resource Management I	3

Customer Service

The Customer Service Emphasis is designed to prepare the student for entry-level positions in business and governmental organizations that require customer contact roles, leading to customer satisfaction and the improved image of the organization.

BUS 181	Internship	3
BUS 216	Legal Environment of Business	3
BUS 217	Business Communication & Report Writing	3
COM 125	Interpersonal Communication	3
MAN 116	Principles of Supervision	3
MAN 200	Human Resource Management I	3
MAN 226	Principles of Management	3
MAN 246	Critical Issues in Marketing & Management	3
MAR 111	Principles of Sales	3
MAR 216	Principles of Marketing	3
		<u>30</u>

Total Credit Hours for Customer Service Emphasis 60-61

Management

The Management Emphasis is designed for those students whose career path or occupational goal includes working in a corporate organizational structure as a manager of a particular department or functional area.

BUS 181	Internship	3
	or	
MAN 116	Principles of Supervision	(3)
BUS 216	Legal Environment of Business	3
BUS 217	Business Communication & Report Writing	3
BUS 226	Business Statistics	3
FIN 201	Principles of Finance	3
MAN 200	Human Resource Management I	3
MAN 226	Principles of Management	3
MAN 240	Strategic Management	3
MAN 246	Critical Issues in Marketing & Management	3
MAR 216	Principles of Marketing	3
		<u>30</u>

Total Credit Hours for Management Emphasis 60-61

Supervision

The Supervision Emphasis is designed for those students who are primarily interested in the supervisory or operational level of management in a small business or corporate entity. Skills, attitudes, and knowledge gained are based on effective first-level management needs.

BUS 216	Legal Environment of Business	3
BUS 217	Business Communication & Report Writing	3
MAN 116	Principles of Supervision	3
MAN 200	Human Resource Management I	3
MAN 226	Principles of Management	3

MAN 246	Critical Issues in Marketing & Management	3	ECO 201	Principles of Macroeconomics: SS1	3
Electives	Choose twelve (12) hours from the list below	12	or		
		30	ECO 202	Principles of Microeconomics: SS1	(3)
Total Credit Hours for Supervision Emphasis		60-61	ENG 121	English Composition I: CO1	3

Supervision Emphasis Electives

BUS 181	Internship	3
MAN 240	Strategic Management	3
MAR 111	Principles of Sales	3
MAR 249	Strategic Marketing	3
PSY 112	Psychology of Adjustment	3

NOTE: Program advisors may approve additional elective choices.

Certificates**Administrative Assistant**

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/business-administration-management/administrative-assistant-gedt>.

This certificate program is designed to prepare students to become office professionals in positions that require skills in computer technology, communication skills, customer service, and office applications.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

BTE 102	Keyboarding Applications I	2
BTE 108	Ten-Key by Touch	1
BTE 111	Keyboarding Speedbuilding I	2
BTE 166	Business Editing Skills	3
BUS 217	Business Communication & Report Writing	3
CIS 107	Voice Recognition: Dragon	1
CIS 135	Complete PC Word Processing	3
CIS 155	PC Spreadsheets Concepts	3
CIS 165	Complete Presentation Graphics	3
MAN 246	Critical Issues in Marketing & Management	3
Electives	Choose six (6) hours from the list below	6
Total Credit Hours		30

Administrative Assistant Electives

ACC 115	Payroll Accounting	3
ACC 125	Computerized Accounting	3
BTE 187	Cooperative Education/Internship	3
CIS 124	Introduction to Operating Systems	3
CIS 145	Complete PC Database	3
CWB 110	Complete Web Authoring	3
MAN 116	Principles of Supervision	3
MAN 200	Human Resource Management I	3
MAR 160	Customer Service	3

Business Foundations

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/business-administration-management/business-foundations-gedt>.

This certificate will allow students exposure to most of the major areas of business. Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

ACC 101	Fundamentals of Accounting	3
or		
ACC 121	Accounting Principles I	(4)
BUS 115	Introduction to Business	3
CIS 118	Introduction to PC Applications	3
COM 115	Public Speaking	3

Total Credit Hours	30-31
---------------------------	--------------

Customer Service

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/business-administration-marketing/customer-service-gedt>.

The certificate prepares the student for both internal and external Customer Service analysis in Industry and Governmental Agencies.

BUS 181	Internship	3
BUS 216	Legal Environment of Business	3
BUS 217	Business Communication & Report Writing	3
COM 125	Interpersonal Communication	3
MAN 116	Principles of Supervision	3
MAN 200	Human Resource Management I	3
MAN 226	Principles of Management	3
MAN 246	Critical Issues in Marketing & Management	3
MAR 111	Principles of Sales	3
MAR 216	Principles of Marketing	3
Total Credit Hours		30

Management

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/business-administration-management/management-gedt>.

The Management certificate program is designed for those students whose career path or occupational goal includes working in a corporate organizational structure as a manager of a particular department or functional area.

BUS 181	Internship	3
or		
MAN 116	Principles of Supervision	(3)
BUS 216	Legal Environment of Business	3
BUS 217	Business Communication & Report Writing	3
BUS 226	Business Statistics	3
FIN 201	Principles of Finance	3
MAN 200	Human Resource Management I	3
MAN 226	Principles of Management	3
MAN 240	Strategic Management	3
MAN 246	Critical Issues in Marketing & Management	3
MAR 216	Principles of Marketing	3
Total Credit Hours		30

Supervision

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/business-administration-management/supervision-gedt>.

The Supervision certificate program is designed for those students who are primarily interested in the supervisory or operational level of management in a small business or a corporate entity. Skills, attitudes, and knowledge gained are based on effective first-level management needs.

BUS 216	Legal Environment of Business	3
BUS 217	Business Communication & Report Writing	3
MAN 116	Principles of Supervision	3
MAN 200	Human Resource Management I	3

MAN 226	Principles of Management	3
MAN 246	Critical Issues in Marketing & Management	3
Electives	Choose twelve (12) hours from the list below	12
Total Credit Hours		30

Supervision Electives

BUS 181	Internship	3
MAN 240	Strategic Management	3
MAR 111	Principles of Sales	3
MAR 249	Strategic Marketing	3
PSY 112	Psychology of Adjustment	3

Computer Aided Drafting and Design - Mechanical

Associate of Applied Science Degree

Pending State Approval

Recommended basic skills standards are:

- AAA 109
- CCR 092
- MAT 050

This program prepares students for drafting positions in manufacturing, engineering, and other areas requiring production-ready drawings and models. Students will learn to prepare 2D and 3D drawings for fabrication using the latest release of AutoCAD. In addition, students will learn blueprint reading, problem-solving techniques, methods for customizing AutoCAD, use of research tools, general organizational skills and applications in geometry and trigonometry.

Students should schedule a meeting with the computer aided drafting program advisor prior to enrolling in classes. During this meeting, student's goals and preparedness can be assessed.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

Students must meet with an advisor to select appropriate technical electives.

General Education Courses

CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
COM 225	Organizational Communication	3
ENG 131	Technical Writing I	3
MAT 107	Career Math	3
	Three (3) additional credit hours from list below	3
		15

Three (3) additional credit hours from list below

BUS 115	Introduction to Business	3
COM 125	Interpersonal Communication	3
PSY 100	Psychology of Workplace Relationships	3

Required Courses (all emphasis areas)

CAD 100	Print Reading for Computer Aided Drafting	3
CAD 101	Computer Aided Drafting I	3
CAD 102	Computer Aided Drafting II	3
CAD 153	Introduction to Pro Engineer/Basics	3
CAD 255	Solid Works Mechanical	3
EGT 103	Technical Drafting III	3
EGT 104	Technical Drafting IV	3
		21

Emphasis Areas**Electronics**

ELT 106	Fundamentals of DC/AC	4
ELT 112	Advanced DC/AC	3
ELT 134	Solid State Devices I	3
ELT 135	Solid State Devices II	3
ELT 147	Digital Devices I	4
ELT 148	Digital Devices II	3
	Two Technical Elective Courses	6
		26

Total Hours for Electronics Degree Emphasis**62****HVAC**

EGT 262	Sheet Metal Fabrication Drawings	3
HVA 102	Basic Refrigeration	4
HVA 105	Electricity for HVAC/R	4
WEL 106	Blueprint Reading for Welders & Fitters	4
	Three Technical Elective Courses	9
		24

Total Hours for HVAC Degree Emphasis**60****Mechanical**

EGT 205	Geometric Dimensioning & Tolerance	3
MAC 101	Introduction to Machine Shop	3
MAC 252	Practical Metallurgy	3
MTE 130	Metrology	3
MTE 247	Strengths of Materials	3
	Three Technical Elective Courses	9
		24

Total Hours for Mechanical Degree Emphasis**60****Recommended Technical Electives**

CAD 155	Pro Engineer/Advanced	3
CAD 240	Inventor I/Autodesk	3
CAD 259	Advanced Solidworks	3
CAD 262	3D Printing/Additive Manufacturing	3
CAD 280	Internship	3
MAC 110	Introduction to Engine Lathe	3
MAC 120	Introduction to Milling Machine	3
MAC 205	Introduction to CNC Milling Operations	3
MAC 240	CAD/CAM 2D	3
MAC 241	CAD/CAM 2D Lab	3
WEL 106	Blueprint Reading for Welders & Fitters	4

Certificates**Advanced CAD Technical Skills**

CAD 100	Print Reading for Computer Aided Drafting	3
CAD 101	Computer Aided Drafting I	3
CAD 102	Computer Aided Drafting II	3
EGT 103	Technical Drafting III	3
EGT 104	Technical Drafting IV	3
		15

Total Credit Hours**15****Animation**

CAD 219	3DS Max	3
CAD 220	Advanced 3DS Max Character Modeling	3
		6

Total Credit Hours**6****Basic CAD Skills**

CAD 100	Print Reading for Computer Aided Drafting	3
CAD 101	Computer Aided Drafting I	3
CAD 102	Computer Aided Drafting II	3
		9

Total Credit Hours**9**

CAD–Quality Assurance

CAD 100	Print Reading for Computer Aided Drafting	3
EGT 205	Geometric Dimensioning & Tolerance	3
MAT 107	Career Math or higher	3
MTE 130	Metrology	3
Total Credit Hours		12

CAD Skills for Interiors

CAD 105	AutoCAD for Interiors	4
CAD 215	Advanced CAD for Interiors	3
IND 111	Drafting for Interiors	4
Total Credit Hours		11

Modeling Design

CAD 153	Introduction to Pro Engineer/Basics	3
CAD 155	Pro Engineer/Advanced	3
CAD 255	Solid Works Mechanical	3
CAD 259	Advanced Solidworks	3
CAD 262	3D Printing/Additive Manufacturing	3
Total Credit Hours		15

Professional CAD - Architecture/Design

AEC 102	Residential Construction Drawing	4
or		
CAD 105	AutoCAD for Interiors	(4)
AEC 104	Architectural Drawing Theory	4
or		
IND 111	Drafting for Interiors	(4)
CAD 101	Computer Aided Drafting I	3
CAD 224	Revit Architecture	3
or		
CAD 215	Advanced CAD for Interiors	(3)
CAD 227	Advanced Revit Architecture	3
Total Credit Hours		17

Professional CAD Mechanical

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/computer-aided-drafting-design/professional-cad-gedt>.

CAD 100	Print Reading for Computer Aided Drafting	3
CAD 101	Computer Aided Drafting I	3
CAD 102	Computer Aided Drafting II	3
CAD 153	Introduction to Pro Engineer/Basics	3
CAD 255	Solid Works Mechanical	3
EGT 103	Technical Drafting III	3
EGT 104	Technical Drafting IV	3
MAT 107	Career Math	3
Two Technical Elective Courses		6
Total Credit Hours		30

Revit Skills

This certificate is for students who are in industry and with prior knowledge of Interior Design and Architecture

CAD 224	Revit Architecture	3
CAD 227	Advanced Revit Architecture	3
Total Credit Hours		6

Computer Information Systems

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 055

The Associate of Applied Science Degree is designed for students who plan careers as information systems specialists. This program is designed for a student who plans to obtain an entry-level position in the information technology field. It provides a broad background that allows for free movement within the computer industry.

Students must have the ability to type 20 WPM or have completed BTE 100.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have the instructor permission to enroll.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
CSC 120	Problem Solving with (Software Package)	3
ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)
MAT 121	College Algebra: MA1	4
		16

Required Courses

BUS 115	Introduction to Business	3
CIS 115	Introduction to Computer Information Systems	3
CIS 124	Introduction to Operating Systems	3
CIS 130	Introduction to the Internet	1
CIS 145	Complete PC Database	3
CIS 155	PC Spreadsheet Concepts	3
CIS 202	Automated Project Management: MS Project	3
CIS 240	Database Design	3
CIS 267	Management of Information Systems	3
CIS 268	Systems Analysis & Design I	3
CIS 287	Cooperative Education	3
or		
CIS 289	Capstone	(3)
CNG 101	Introduction to Networking	3
CSC 150	Visual Basic Programming: 6.0	3
or		
CSC 220	Introduction to Microsoft Visual Basic.NET	(3)
or		
CSC 160	Computer Science I: (Language)	(4)
CWB 110	Complete Web Authoring	3
CWB 221	Technology Foundations for E-Commerce	3
Electives		3
		43-44

Total Credit Hours 62-63

Electives can be any course: CIS, CNG, CSC, CWB, MGD (except CIS 118 or CSC 105)

Certificates

Computer Application Specialist

Gainful Employment Disclosure located at <http://ppcc.edu/app/catalog/ge/computer-information-systems/computer-application-specialist-gedt>.

CIS 107	Voice Recognition: Dragon	1
CIS 118	Introduction to PC Applications	3
CIS 135	Complete PC Word Processing	3
CIS 145	Complete PC Database	3
CIS 155	PC Spreadsheet Concepts	3
CIS 165	Complete Presentation Graphics	3
Total Credit Hours		16

Database

Gainful Employment Disclosure located at <http://ppcc.edu/app/catalog/ge/computer-information-systems/database-gedt>.

CIS 124	Introduction to Operating Systems	3
CIS 130	Introduction to the Internet	1
CIS 145	Complete PC Database	3
CIS 146	Advanced Access	3
CIS 240	Database Design	3
CIS 243	Introduction to Structured Query Language (SQL)	3
Total Credit Hours		16

Help Desk

Gainful Employment Disclosure located at <http://ppcc.edu/app/catalog/ge/computer-information-systems/help-desk-gedt>.

CIS 118	Introduction to PC Applications	3
CIS 124	Introduction to Operating Systems	3
CIS 288	Practicum	1
CNG 101	Introduction to Networking	3
CNG 104	Introduction to TCP/IP	3
CNG 121	Computer Technician I: A+	4
Total Credit Hours		17

IT Fundamentals

BTE 100	Computer Keyboarding	1
or		
BTE 108	Ten-Key by Touch	(1)
CIS 115	Introduction to Computer Information Systems	3
CIS 120	Technology for Career Development	1
MAR 160	Customer Service	3
Total Credit Hours		8

IT Security Essentials

CIS 263	PC Help Desk Skills	3
CNG 132	Network Security Fundamentals	3
Total Credit Hours		6

IT Support Essentials

CIS 203	Technology for Career Success	2
CIS 288	Practicum	1
CNG 121	Computer Technician I: A+	4
Total Credit Hours		7

Network Essentials

CIS 124	Introduction to Operating Systems	3
CNG 101	Introduction to Networking	3
Total Credit Hours		6

Programming

Gainful Employment Disclosure located at <http://ppcc.edu/app/catalog/ge/computer-information-systems/programming-gedt>.

CSC 120	Problem Solving with (Software Package)	3
CSC 150	Visual Basic Programming: 6.0	3
or		
CSC 220	Introduction to Microsoft Visual Basic.NET	(3)
CSC 160	Computer Science I: (Language)	4
CSC 161	Computer Science II: (Language)	4
CSC 225	Computer Architecture/Assembly Language Programming	4
Total Credit Hours		18

Software Fundamentals

CIS 131	Word Processing I	1
CIS 132	Word Processing II	1
CIS 140	Microsoft Outlook	1
CIS 141	PC Databases I	1
CIS 151	PC Spreadsheets I	1
CIS 152	PC Spreadsheets II	1
Total Credit Hours		6

Computer Networking Technology

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 055

The Associate of Applied Science Degree provides students with practical and relevant skills in the field of Computer Networking and Information Technology. In addition to obtaining an Associate of Applied Science Degree, the program provides a foundation for students to further achieve industry certifications such as CompTIA Network+, CompTIA Security+, EC-Council's CEH (Certified Ethical Hacker) and CCNA (Cisco Certified Network Associate). Students completing this program will be able to demonstrate knowledge of computer software, computer hardware, network operating systems, networking device configuration, network administration, network security risks, cyber security threats and countermeasures specialized hardware and software defenses, and forensic analysis. Students entering this program should have a good foundation in math and reading, as well as basic familiarity with Microsoft Windows and internet browsers. Students may be advised to take additional courses to prepare them for the degree program.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
CSC 120	Problem Solving with (Software Package)	3
COM 125	Interpersonal Communication	3
ENG 131	Technical Writing I	3
MAT 121	College Algebra: MA1	4
Total Credit Hours		16

Other Course Requirements

CIS 124	Introduction to Operating Systems	3
CIS 155	PC Spreadsheet Concepts	3
CIS 202	Automated Project Management: MS Project	3
CIS 267	Management of Information Systems	3
CNG 132	Network Security Fundamentals	3
CNG 133	Network Security: Fire Walls & Intrusion Detection & Network Security	3
Electives	Choose six (6) hours from the list below	6
		<hr/> 24

Electives

Choose six (6) hours from any courses within the disciplines of BUS, CIS, CNG, CSC, CWB, MAN, MAR, MGD except CIS 118, CNG 101, CSC 105, and MGD 104.

Cisco

CNG 260	Cisco Network Associate I	5
CNG 261	Cisco Network Associate II	5
CNG 262	Cisco Network Associate III	5
CNG 263	Cisco Network Associate IV	5
		<hr/> 20

Total Credit Hours for CCNA Emphasis**60****Network+**

CIS 223	Linux	3
CNG 101	Networking Fundamentals	3
CNG 102	Local Area Networks	3
CNG 104	Introduction to TCP/IP	3
CNG 108	Network Analysis & Design	3
CNG 257	Network Defense & Counter Measures	3
CNG 258	Digital Forensics	4
		<hr/> 22

Total Credit Hours for Network+ Emphasis**62****Certificates**

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/cisco-networking-academy/cisco-certified-network-associate-gedt>.

The Computer Networking Technology certificate provides students with practical and relevant skills in the field of Computer Networking and Information Technology. The Certificate program provides a foundation for students to further achieve industry certifications such as CompTIA Network+ and CCNA (Cisco Certified Network Associate). Students completing this program will be able to demonstrate knowledge of computer software, computer hardware, network operating systems, networking device configuration, and network administration. Students entering this program should have a good foundation in math and reading, as well as basic familiarity with Microsoft Windows and internet browsers. Students may be advised to take additional courses to prepare them for the degree program.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have the instructor permission to enroll.

CCNA

Gainful Employment Disclosure located at
<http://www.ppcc.edu/app/catalog/ge/networking-technology/ccna-gedt>.

CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
CIS 124	Introduction to Operating Systems	3
CIS 155	PC Spreadsheets Concepts	3
CNG 260	Cisco Network Associate I	5
CNG 261	Cisco Network Associate II	5

CNG 262	Cisco Network Associate III	5
CNG 263	Cisco Network Associate IV	5
CWB 110	Complete Web Authoring	3
	Total Credit Hours	<hr/> 32

Cisco Certified Network Associate

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/cisco-networking-academy/cisco-certified-network-associate-gedt>.

This certificate program prepares students to design, build, and maintain networks capable of supporting national and global organizations. Course work covers a complete range of basic through advanced networking concepts from pulling cable to such complex concepts as subnet masking rules and strategies. Methods of learning are varied with interactive on-line lessons, texts, movies, and extensive hands-on applications. Upon successful completion, the program graduate is qualified to take the Cisco Networking Associate Certification examination.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

CNG 260	Cisco Network Associate I	5
CNG 261	Cisco Network Associate II	5
CNG 262	Cisco Network Associate III	5
CNG 263	Cisco Network Associate IV	5
	Total Credit Hours	<hr/> 20

Cyber Security

The Cyber Security certificate prepares students for an entry level position in the fields of cyber security and computer networking.

This certificate provides a foundation for students to achieve industry certifications, such as CompTIA's Security+ and EC-Council's Certified Ethical Hacker. Students completing the certificate will be able to demonstrate knowledge of networking basics, network security risks, cyber security threats & countermeasures, specialized hardware & software defenses, and forensic analysis. Students entering this certificate program should have a good foundation in math and reading, as well as basic familiarity with Microsoft Windows and internet browsers.

Students may be advised to take additional courses to prepare them for the certificate program. Students not meeting a course prerequisite must have instructor permission to enroll.

CIS 223	Linux	3
CNG 101	Networking Fundamentals	3
	and	
CNG 104	Introduction to TCP/IP	3
	or	
CNG 260	Cisco Network Associate I	(5)
CNG 102	Local Area Networks	3
CNG 132	Network Security Fundamentals	3
CNG 133	Network Security: Fire Walls & Intrusion Detection & Network Security	3
CNG 257	Network Defense & Counter Measures	3
CNG 258	Digital Forensics	4
	Total Credit Hours	<hr/> 24-25

Network+

Gainful Employment Disclosure located at
<http://www.ppcc.edu/app/catalog/ge/networking-technology/network-gedt>.

CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
CIS 124	Introduction to Operating Systems	3
CIS 155	PC Spreadsheets Concepts	3
CIS 223	Linux	3

CNG 101	Networking Fundamentals	3
CNG 102	Local Area Networks	3
CNG 103	Wide Area Networks	3
CNG 104	Introduction to TCP/IP	3
CWB 110	Complete Web Authoring	3
CWB 221	Technology Foundations for E-Commerce	3
Total Credit Hours		30

Criminal Justice

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

The Criminal Justice Program at PPCC is designed to upgrade the skills and knowledge of employed criminal justice professionals, and to provide a pre-employment or transfer program to students interested in the field, or in continuing on to a four year school.

The student seeking an AAS degree, or the professional employed in the field can upgrade their skills for hiring, advancement and promotion. PPCC offers one of the broadest ranges of course offerings in the nation.

An AAS degree from PPCC will open doors into many opportunities in law enforcement at the state, federal and local level. Our students have gone on to careers in Criminal Investigations, as Crime Scene Investigators, Corrections officers, State and Federal Probation and Parole officers, and many others. Several PPCC graduates have advanced to become chiefs of police and sheriffs.

Students should realize, however, that a degree from PPCC will not guarantee a position with an agency in the criminal justice field. Many agencies impose requirements other than education for employment. These requirements may be related to age, physical condition, height, weight and vision. The majority of employers in the criminal justice field will not hire persons with a felony conviction, or a lengthy history of drug use. Some arrests and/or convictions for certain crimes will also be disqualifiers. Employers in the field screen for certain psychological and personality traits, and many give pre-employment polygraph tests.

Prospective students with questions concerning the foregoing should consult with faculty advisors.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)
ENG 122	English Composition II: CO2	3
or		
COM 115	Public Speaking	(3)
or		
POS 125	American State & Local Government: SS1	(3)
MAT 107	Career Math	3
or		
MAT 120 or higher		(3-4)
PSY 112	Psychology of Adjustment	3
AAS Approved General Elective		3
		18-19

Additional Required Courses

Must take 42 credit hours from the list below

CRJ 110	Introduction to Criminal Justice: SS3	3
CRJ 125	Policing Systems	3
CRJ 127	Crime Scene Investigation	3

CRJ 135	Judicial Function	3
CRJ 145	Correctional Process	3
CRJ 205	Principles of Criminal Law	3
CRJ 209	Criminal Investigation I	3
CRJ 220	Human Relations & Social Conflict	3
CRJ 225	Crisis Intervention	3
CRJ 230	Criminology	3
CRJ 231	Introduction to Forensic Science & Criminalistics	3
CRJ 235	Delinquent Behavior	3
CRJ 257	Victimology	3
CRJ 268	Criminal Profiling	3
CRJ 280	Internship	3
LEA 118	Police Report Writing	3
Total Credit Hours		60-61

Certificates

Behavior Studies

CRJ 220	Human Relations & Social Conflict	3
CRJ 230	Criminology	3
CRJ 235	Delinquent Behavior	3
CRJ 268	Criminal Profiling	3
Total Credit Hours		12

Basic Criminology

CRJ 110	Introduction to Criminal Justice: SS3	3
CRJ 230	Criminology	3
CRJ 235	Delinquent Behavior	3
Total Credit Hours		9

Basic Investigations

CRJ 127	Crime Scene Investigation	3
CRJ 209	Criminal Investigation I	3
CRJ 231	Introduction to Forensic Science & Criminalistics	3
LEA 118	Report Writing	3
Total Credit Hours		12

Criminal Justice Basic

CRJ 110	Introduction to Criminal Justice: SS3	3
CRJ 135	Judicial Function	3
CRJ 209	Criminal Investigation I	3
CRJ 230	Criminology	3
Total Credit Hours		12

Culinary Arts

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

Culinary Arts continues to be one of the fastest growing career fields in the world. The culinary profession is a field different from most others, as it demands unusual circumstances and lengthy hours. The traits necessary to become a Culinarian are dedication, endurance and ambition. Upon completion, the student will be able to work in a professional establishment as a second cook or station supervisor.

Students entering this course of study will be required to have completed, or demonstrated proficiency equivalent to the completion of CCR 092, MAT 050, CUA 100, CUA 101, and must pass the national ServSafe Certification prior to enrolling into future Culinary Arts lab courses. Students must see a faculty advisor before registering for this program.

General Education Courses

BUS 115	Introduction to Business	3
CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
ENG 131	Technical Writing I	3
MAT 112	Financial Mathematics	3
PSY 100	Psychology of Workplace Relationships	3
		<hr/> 15

Emphasis Areas**Baking and Pastry**

This two year program is designed for students seeking advanced employment in the baking and pastry field as assistant pastry chefs, or as a bakeshop station chef. During the course of study students will learn and demonstrate basic baking skills, equipment, decorating, show pieces, breads, advanced desserts, and wedding cakes. Students will also be trained in sanitation, cost controls, purchasing, management skills, and nutrition.

Examinations will be given throughout the program. Once a student completes the AAS Baking and Pastry Arts Program, they can apply for certification with the American Culinary Federation as becoming a Certified Pastry Cook (CPC). Students must be Junior Members of the ACF at the time of graduation. Students entering this course of study will be required to have completed, or demonstrated proficiency equivalent to the completion of CCR 092, MAT 050, CUA 100, CUA 101, and must pass the national ServSafe Certification prior to enrolling into future Culinary Arts lab courses. Students must see a faculty advisor before registering for this program.

Additional required courses

CUA 100	Culinary Program Fundamentals	3
CUA 101	Food Safety & Sanitation	2
CUA 105	Food Service Concepts & Management Skills	3
CUA 125	Introduction to Foods	4
CUA 127	Soups, Sauces, & Consommés	3
CUA 145	Introduction to Baking	4
CUA 150	Baking: Decorating & Presentation	3
CUA 151	Baking: Intermediate Bread Preparation	3
CUA 152	Individual Fancy Dessert Production	3
CUA 153	Confectionaries & Petit Fours	3
CUA 154	Introduction to the Business of Catering	3
CUA 156	Nutrition for the Hospitality Professional	3
CUA 161	Advanced Cake Decorating-Wedding Cakes	2
CUA 236	Advanced Baking	2
CUA 262	Purchasing for the Hospitality Industry	3
CUA 281	Internship	4
		<hr/> 48

Total Credit Hours for Baking and Pastry Emphasis 63

Culinary Arts

The AAS Degree Program focuses on every aspect of working in a professional kitchen. Students will be trained in the following areas of study; basic food prep, sanitation, nutrition, supervision, baking, catering, wines and spirits, gardé manger (cold kitchen), purchasing, and soups, sauces, and consommés. Students will also be required to complete an on the job internship prior to graduation.

Once a student completes the AAS Culinary Arts Program, they can apply for certification with the American Culinary Federation as becoming a Certified Cook (CC). Students must be Junior Members of the ACF at the time of graduation. The Culinary Program encourages the students to receive certification due to the increase of positions in the United States that require an individual to be certified to work in different professional establishments.

Additional required courses

CUA 100	Culinary Program Fundamentals	3
CUA 101	Food Safety & Sanitation	2
CUA 105	Food Service Concepts & Management Skills	3
CUA 120	Wines & Spirits	2
CUA 125	Introduction to Foods	4
CUA 127	Soups, Sauces, & Consommés	3
CUA 129	Center of the Plate	4
CUA 145	Introduction to Baking	4
CUA 154	Introduction to the Business of Catering	3
CUA 156	Nutrition for the Hospitality Professional	3
CUA 210	Advanced Cuisine & Gardé Manger	4
CUA 233	Advanced Line Prep & Cookery	4
CUA 245	International Cuisine	2
CUA 262	Purchasing for the Hospitality Industry	3
CUA 281	Internship	4
		<hr/> 48

Total Credit Hours for Culinary Arts Emphasis 63

Food Service Management

The AAS Degree Program focuses on the aspect of management in a professional food service operation. Students will be trained in the following areas of study; basic food prep, sanitation, cost controls, purchasing, legal aspects, nutrition, catering, beverages management, and supervision skills.

Students will also be required to complete an on the job internship prior to graduation.

Students may also take the national examinations by the National Restaurant Association Educational Foundation throughout the degree. Students that complete and pass the required exams will be eligible to receive the Manage First Professional Credential with the documentation of 800 hours industry related training.

Students entering this course of study will be required to have completed, or demonstrated proficiency equivalent to the completion of CCR 092, MAT 050, CUA 100, CUA 101, and must pass the national ServSafe Certification prior to enrolling into future Culinary Arts lab courses. Students must see a faculty advisor before registering for this program.

Additional required courses

CUA 100	Culinary Program Fundamentals	3
CUA 101	Food Safety & Sanitation	2
CUA 120	Wines & Spirits	2
CUA 125	Introduction to Foods	4
CUA 136	Alcohol & Bartending Management	2
CUA 154	Introduction to the Business of Catering	3
CUA 156	Nutrition for the Hospitality Professional	3
CUA 157	Menu Planning	3
CUA 190	Dining Room Management	4
CUA 255	Supervision in the Hospitality Industry	3
CUA 256	Marketing in the Hospitality Industry	3
CUA 261	Cost Controls	3
CUA 262	Purchasing for the Hospitality Industry	3
CUA 263	Legal Aspects of Hospitality Management	3
CUA 281	Internship	4
		<hr/> 45

Total Credit Hours for Food Service Management Emphasis 60

Sustainability Management and Dietary Cuisine

This program is designed for students that seek employment in the food service employment industry with a focus on dietary and environmental sustainability practices to meet the future needs of the foods service industry. Employment opportunities include culinary and management careers in the health care industry, institutional operations with special dietary needs, operations that serve high risk populations, and operations that utilize sustainability practices. Students will learn skills and understanding in human nutrition, menu development, cultural cuisines, sustainability practices, dietary cuisine, environmental impacts and concerns, and using the farm to fork concept within the industry. Examinations will be given throughout the program.

Students entering this course of study will be required to have completed, or demonstrated proficiency equivalent to the completion of CCR 092, MAT 050, CUA 100, CUA 101, and must pass the national ServSafe Certification prior to enrolling into future Culinary Arts lab courses. Students must see a faculty advisor before registering for this program.

General Education Courses

BUS 115	Introduction to Business	3
CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
ENG 131	Technical Writing I	3
ENV 101	Introduction to Environmental Science: SC1	4
MAT 112	Financial Mathematics	3
PSY 100	Psychology of Workplace Relationships	3
		<hr/> 19

Additional required courses

CUA 100	Culinary Program Fundamentals	3
CUA 101	Food Safety & Sanitation	2
CUA 105	Food Service Concepts & Management Skills	3
CUA 125	Introduction to Foods	4
CUA 145	Introduction to Baking	4
CUA 156	Nutrition for the Hospitality Professional	3
CUA 157	Menu Planning	3
CUA 245	International Cuisine	4
CUA 261	Cost Controls	3
CUA 262	Purchasing for the Hospitality Industry	3
CUA 263	Legal Aspects of Hospitality Management	3
CUA 264	Sustainable Food Service Operations	3
CUA 268	Vegetarian & Dietary Cuisine	3
CUA 269	Dietary Baking	2
CUA 281	Internship	4
		<hr/> 42

Total Credit Hours for Sustainability Management & Dietary Cuisine Emphasis 61

Certificates

Students will be required to have completed, or demonstrated proficiency equivalent to the completion of CCR 092, MAT 050, CUA 100, CUA 101, and must pass the national ServSafe Certification prior to enrolling into future Culinary Arts lab courses. Students must see a faculty advisor before registering for this program.

Baking

Gainful Employment Disclosure located at <http://ppcc.edu/app/catalog/ge/culinary-arts/baking-gedt>.

This program will prepare students for employment in baking and the art of pastries. The certificate program will develop the students' skills and understanding in the areas of chocolates, confections items, ice creams and frozen desserts, yeast products, quick breads, sculpted items, sugar work, use of fruits,

and national desserts. Students completing the certificate program could find employment in these specific areas: baker, baking assistant, journeyman baker, cake decorator, candy maker, or pastry cook. Examinations will be given throughout the duration of the program.

CUA 100	Culinary Program Fundamentals	3
CUA 101	Food Safety & Sanitation	2
CUA 105	Food Service Concepts & Management Skills	3
CUA 145	Introduction to Baking	4
CUA 150	Baking: Decorating & Presentation	3
CUA 151	Baking: Intermediate Bread Preparation	3
CUA 152	Individual Fancy Dessert Production	3
CUA 156	Nutrition for the Hospitality Professional	3
CUA 236	Advanced Baking	2
CUA 262	Purchasing for the Hospitality Industry	3
		<hr/> 29

Total Credit Hours

Basic Skills

Gainful Employment Disclosure located at <http://ppcc.edu/app/catalog/ge/culinary-arts/culinary-arts-basic-skills-gedt>.

This certificate is designed for students seeking basic skills to enter the food services field. Students will learn national sanitation standards, management skills, and introduction to baking and cooking skills. Students will obtain the knowledge to work as a station cook with a food service establishment upon completion of this program. Examinations will be given throughout the program.

CUA 100	Culinary Program Fundamentals	3
CUA 101	Food Safety & Sanitation	2
CUA 105	Food Service Concepts & Management Skills	3
CUA 125	Introduction to Foods	4
CUA 145	Introduction to Baking	4
		<hr/> 16

Total Credit Hours

Culinary Arts

Gainful Employment Disclosure located at <http://ppcc.edu/app/catalog/ge/culinary-arts/culinary-arts-gedt>.

This program is designed for students who seek employment as a journeyman cook, station cook, or entry level cook in a professional establishment. Students will develop skills and understanding of line cookery, basic baking, saucier station, production, nutrition, sanitation, menu planning, cold food production, and entree preparation. Examinations will be given throughout the program.

CUA 100	Culinary Program Fundamentals	3
CUA 101	Food Safety & Sanitation	2
CUA 105	Food Service Concepts & Management Skills	3
CUA 125	Introduction to Foods	4
CUA 127	Soups, Sauces, & Consommés	3
CUA 129	Center of the Plate	4
CUA 145	Introduction to Baking	4
CUA 156	Nutrition for the Hospitality Professional	3
CUA 210	Advanced Cuisine & Gardé Manger	4
CUA 233	Advanced Line Prep & Cookery	4
		<hr/> 34

Total Credit Hours

Food Service Management

Gainful Employment Disclosure located at <http://ppcc.edu/app/catalog/ge/culinary-arts/food-service-management-gedt>.

This program is designed for students who seek employment as supervisor in food service management. Students will learn skills and understanding in cost controls, employee management, marketing, sanitation standards, basic nutrition, menu development, establishment concepts, customer and business

legalities, catering, wine selection, basic cooking, and purchasing.

Examinations will be given throughout the program.

CUA 100	Culinary Program Fundamentals	3
CUA 101	Food Safety & Sanitation	2
CUA 105	Food Service Concepts & Management Skills	3
CUA 120	Wine & Spirits	2
CUA 125	Introduction to Foods	4
CUA 154	Introduction to the Business of Catering	3
CUA 156	Marketing in the Hospitality Industry	3
CUA 190	Dining Room Management	4
CUA 256	Marketing in the Hospitality Industry	3
CUA 261	Cost Controls	3
CUA 262	Purchasing for the Hospitality Industry	3
CUA 263	Legal Aspects of Hospitality Management	3
Total Credit Hours		36

Dental Assisting

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

A dental assistant is a skilled and essential member of the dental health care team in the delivery of preventive and restorative dentistry. The continuing demand for dental assistants makes this program an opportunity for a productive career.

The Dental Assisting certificate program prepares students for employment as chair-side dental assistants. In addition to the prescribed coursework, a minimum of 300 clinical hours is required to complete the program. Students must provide their own transportation to their clinical sites. A complete physical examination is required prior to the beginning of the clinical experience, and a Hepatitis B vaccination is strongly recommended.

Students must be at least 18 years of age before enrolling in Dental Radiology courses. Students must earn a C or better in all dental assisting courses in order to graduate. Students must submit to a criminal background check and a drug screening prior to entering their clinical internship assignments. (Student fees for these tests apply)

The Dental Assisting certificate program is accredited by the American Dental Association's Commission on Dental Accreditation. Graduates of the certificate program are eligible to take the Dental Assisting National Board (DANB) Examination. Successful completion of the DANB Examination awards students the status of Certified Dental Assistant (CDA).

Students who wish to pursue the Associate of Applied Science Degree in Dental Assisting must be a graduate of an ADA accredited dental assisting certificate program. Students participating in the AAS Degree program will be given instruction, laboratory experience, and clinical experience in expanded functions as permitted by the Dental Practice Law of Colorado. Students who wish to develop skills as an expanded functions dental assistant but, are not graduates of an ADA accredited dental assisting program, must be a Certified Dental Assistant or have a minimum of two years of full time documented experience as a chairside dental assistant, preferably in a general dentistry practice.

Students who are interested in either the certificate program or the AAS degree program must meet with a dental assisting program advisor prior to enrolling in any dental assisting courses.

General Education Courses

CIS 118	Introduction to PC Applications	3
COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
ENG 121	English Composition I: CO1	(3)
COM 225	Organizational Communication	3
or		
ENG 122	English Composition II: CO2	(3)
PSY 101	General Psychology I: SS3	3
or		
PSY 112	Psychology of Adjustment	(3)
PSY 102	General Psychology II: SS3	3
or		
PSY 235	Human Growth and Development: SS3	(3)
		15

Additional required courses

DEA 102	Principles of Clinical Practice	3
DEA 104	Specialties of Dentistry	2
DEA 111	Dental Office Management	2
DEA 120	Introduction to Dental Practices	1
DEA 121	Dental Science I	3
DEA 122	Dental Science II	3
DEA 123	Dental Materials I	3
DEA 124	Dental Materials II	3
DEA 125	Dental Radiography	3
DEA 126	Infection Control	3
DEA 131	Advanced Dental Radiography	3
DEA 132	Medical Emergencies in the Dental Office	2
DEA 134	Prevention & Nutrition in Dentistry	3
DEA 140	Dental Assisting National Board Review	1
DEA 181	Clinical Internship I	1
DEA 182	Clinical Internship II & Seminar	6
DEA 200	Introduction to Expanded Functions	4
DEA 205	Expanded Functions for Dental Auxiliary	4
		50
Total Credit Hours		65

Certificate

Dental Assisting

Gainful Employment Disclosure located at

<http://ppcc.edu/app/catalog/ge/dental-assisting/dental-assisting-gedt>.

CIS 118	Introduction to PC Applications	3
COM 115	Public Speaking	3
or		
COM 125	Interpersonal Communication	(3)
or		
ENG 121	English Composition I: CO1	(3)
DEA 102	Principles of Clinical Practice	3
DEA 104	Specialties in Dentistry	2
DEA 111	Dental Office Management	2
DEA 120	Introduction to Dental Practices	1
DEA 121	Dental Science I	3
DEA 122	Dental Science II	3
DEA 123	Dental Materials I	3
DEA 124	Dental Materials II	3
DEA 125	Dental Radiography	3
DEA 126	Infection Control	3
DEA 131	Advanced Dental Radiography	3
DEA 132	Medical Emergencies in the Dental Office	2
DEA 134	Prevention & Nutrition in Dentistry	3
DEA 140	Dental Assisting National Board Review (Elective)	1
DEA 181	Clinical Internship I	1
DEA 182	Clinical Internship II & Seminar	6
Total Credit Hours		47-48

Diesel Technology

Associate of Applied Science Degree

Recommended basic skills standards are:

- AAA 109
- CCR 092
- MAT 050

This program prepares students for entry level positions in the field of heavy duty diesel vehicle repair and parts supply. Areas of emphasis are engine repair, fuel supply and management, suspension and brakes, hydraulic systems operation, and lighting and instrumentation. The program provides students with a broad foundation in the diesel repair field employers are looking for.

Students entering this program should exhibit the following qualities: mechanical aptitude, ability to read and follow instructions as outlined in service repair manuals, and enjoy precision work and problem solving. Students must provide appropriate work clothing, safety glasses, and a basic set of hand tools. Please meet with your advisor to get the required hand tool list.

Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

CIS 118	Introduction to PC Applications	3
COM 225	Organizational Communication	3
MAT 107	Career Math	3
General Education Electives from approved list can be found on page 80		6
		<hr/> 15

Other Course Requirements

ASE 265	Heating & Air Conditioning Systems	4
DPM 100	Introduction to Diesel Mechanics	2
DPM 101	Diesel Shop Orientation	2
DPM 103	Diesel Engines I	4
DPM 105	Heavy Duty Powertrains I	3
DPM 106	Diesel Fuel Systems	3
DPM 121	Hydraulic Systems I	3
DPM 122	Hydraulic Systems II	3
DPM 140	H/D Steering & Suspension I	3
DPM 203	Diesel Engines II	4
DPM 205	Heavy Duty Powertrains II	3
DPM 206	Heavy Duty Brake Systems I	3
DPM 207	Heavy Duty Brake Systems II	3
DPM 210	Diesel Air Induction	2
DPM 222	H/D Lighting & Instrumentation	3
DPM 240	H/D Steering & Suspension II	3
		<hr/> 48

Total Credit Hours **63**

Certificates

Diesel Engine Performance

DPM 100	Introduction to Diesel Mechanics	2
DPM 101	Diesel Shop Orientation	2
DPM 106	Fuel Injection	3
DPM 210	Air Induction & Engine Analysis	2
DPM 222	H/D Lighting & Instrumentation	3
Total Credit Hours		<hr/> 12

Diesel Engine Repair

ASE 160	Automotive Engine Repair	2
DPM 100	Introduction to Diesel Mechanics	2
DPM 101	Diesel Shop Orientation	2
DPM 103	Diesel Engines I	4
DPM 203	Diesel Engines II	4
Total Credit Hours		<hr/> 14

Diesel Fuel Injection

ASE 120	Basic Automotive Electricity	2
DPM 100	Introduction to Diesel Mechanics	2
DPM 101	Diesel Shop Orientation	2
DPM 106	Fuel Injection	3
Total Credit Hours		<hr/> 9

Early Childhood Education

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

Early Childhood Education, like all education, demands well-prepared teachers. A growing body of research supports the value of high-quality early childhood programs for children's later success in school and in life, the most important determinant of which is the teacher.

Pikes Peak Community College and the Early Childhood Education program faculty are committed to providing the optimal course of study that meets the career goals of each student. The Early Childhood Education program is the foundation for a challenging and rewarding career in early childhood care and education as well as other related fields.

All students registered for ECE classes, both lecture-based and practicum-based courses, must submit to a criminal background check the first semester of enrollment. This process is completed online through the PPCC Human Resources Department, with an associated cost for the background check service. Further instructions are available on the ECE home page and will be provided the first day of class.

Upon completion of the Early Childhood Education program, students will be able to meet the educational qualifications for early childhood teacher and director as defined by the Colorado Department of Human Services for licensed child care centers and preschools.

All students should schedule an appointment with an Early Childhood Education program advisor prior to enrolling in a class. Please call 719-502-3300 to schedule an appointment.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
ENG 121	English Composition I: CO1	3
MAT 112	Financial Mathematics	3
PSY 101	General Psychology I: SS3	3
or		
PSY 112	Psychology of Adjustment	(3)
SOC 101	Introduction to Sociology I: SS3	3
or		
SOC 205	Sociology of Family Dynamics: SS3	(3)
		<hr/> 15

Courses required for all emphasis areas

ECE 101	Introduction to Early Childhood Education	3
ECE 102	Introduction to Early Childhood Lab Techniques	3
ECE 103	Guidance Strategies for Children	3
ECE 111	Infant & Toddler Theory & Practice	3
ECE 112	Introduction to Infant/Toddler Lab Techniques	3
ECE 191	School Age Theory & Practice	3
ECE 205	Nutrition, Health & Safety	3
ECE 209	Observing and Utilizing Young Children's Assessment Instruments	1
ECE 220	Curriculum Development: Methods & Techniques	3
ECE 226	Creativity & the Young Child	3
ECE 238	Child Growth & Development	3
ECE 240	Administration of Early Childhood Care & Education Programs	3
ECE 241	Admin: Human Relations for Early Childhood Education	3
ECE 256	Working with Parents, Families & Community Systems	3
ECE 260	The Exceptional Child	3
ECE 289	Capstone: Early Childhood Education	5
		<hr/>
		48

Additional Requirements

Six (6) credit hours. Choose 2 of the following 3 courses

ECE 113	Infant/Toddler Lab Techniques II	3
ECE 192	School Age Lab Techniques	3
ECE 261	Exceptional Child Lab Techniques	3
		<hr/>
		6

Total Credit Hours

69

Certificates**Basic Skills**

ECE 101	Introduction to Early Childhood Education	3
ECE 102	Introduction to Early Childhood Lab Techniques	3
ECE 103	Guidance Strategies for Children	3
ECE 226	Creativity & the Young Child	3
HWE 103	Community First Aid & CPR	1
		<hr/>
		13

Total Credit Hours

13

Developmental Intervention Assistant

ECE 120	Introduction to Early Intervention for Infants & Toddlers	4
ECE 121	Promoting Infant & Toddler Development in Natural Environments	3
ECE 122	Interventions for Infants' & Toddlers' Health, Communication & Behavioral Needs	3
ECE 123	Critical Topics in Early Intervention: Autism, Assistive Technology & Transition	3
ECE 124	Professional Growth & Development: Theory & Practice (with Lab)	4
		<hr/>
		17

Total Credit Hours

17

Director**Gainful Employment Disclosure located at**<http://ppcc.edu/app/catalog/ge/early-childhood-education/director-gedt>.

ECE 101	Introduction to Early Childhood Education	3
ECE 102	Introduction to Early Childhood Lab Techniques	3
ECE 103	Guidance Strategies for Children	3
ECE 111	Infant & Toddler Theory & Practice	3
ECE 205	Nutrition, Health & Safety	3
ECE 220	Curriculum Development: Methods & Techniques	3
ECE 238	Child Growth & Development	3
ECE 240	Administration of Early Childhood Care & Education Programs	3

ECE 241	Admin: Human Relations for Early Childhood Education	3
ECE 260	The Exceptional Child	3
		<hr/>
	Total Credit Hours	30

ECT DHS Minimum Qualifications

ECE 101	Introduction to Early Childhood Education	3
	or	
ECE 103	Guidance Strategies for Children	(3)
ECE	Elective Course of Choice	3
		<hr/>
	Total Credit Hours	6

Infant Toddler**Gainful Employment Disclosure located at**<http://ppcc.edu/app/catalog/ge/early-childhood-education/infant-toddler-gedt>.

ECE 111	Infant & Toddler Theory & Practice	3
ECE 112	Introduction to Infant/Toddler Lab Techniques	3
ECE 113	Infant/Toddler Lab Techniques II	3
ECE 238	Child Growth & Development	3
ECE 256	Working with Parents, Families & Community Systems	3
ECE 260	The Exceptional Child	3
		<hr/>
	Total Credit Hours	18

Preschool**Gainful Employment Disclosure located at**<http://ppcc.edu/app/catalog/ge/early-childhood-education/preschool-gedt>.

ECE 101	Introduction to Early Childhood Education	3
ECE 102	Introduction to Early Childhood Lab Techniques	3
ECE 103	Guidance Strategies for Children	3
ECE 209	Observing and Utilizing Young Children's Assessment Instruments	1
ECE 220	Curriculum Development: Methods & Techniques	3
ECE 238	Child Growth & Development	3
ECE 256	Working with Parents, Families & Community Systems	3
ECE 260	The Exceptional Child	3
		<hr/>
	Total Credit Hours	22

Electronics Technology**Associate of Applied Science Degree***Pending State Approval*

Recommended basic skills standards are

- AAA 109
- CCR 092
- MAT 050

This degree program prepares students with technical job entry skills as electronics technicians. Graduates become qualified to work in electronic automation and in control systems environments. Measurement, instrumentation, automation control systems, electronic assembly and industrial robotics are work-related areas for career path employment.

Maximizing student success in the electronic program is the department goal. The program faculty recommends that students develop the following desirable skill and knowledge foundations to enhance student success:

- advanced college level study skills
- working knowledge of algebraic principles and basic trigonometric functions
- college-level reading and comprehension skills
- working knowledge and application of college-level English

- demonstrated time management skills
- awareness of workplace utilization of self-management work teams
- basic understanding of physics principles
- keyboarding, mouse, and MS Windows experience
- understanding of basic science and physics principles

Students who want individualized program planning suggestions are encouraged to meet with program faculty. Please call (719) 502-3600 to schedule an appointment.

Fall semester course sequencing provides concurrent enrollment in ELT 106, ELT 112 and ELT 165. Spring semester course sequencing provides concurrent enrollment in ELT 134, ELT 135, ELT 147, and ELT 148. Students should see a program faculty person if unable to take these courses concurrently.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

COM 125	Interpersonal Communication	3
	or	
COM 217	Group Communication	(3)
CSC 105	Computer Literacy	3
ENG 131	Technical Writing I	3
MAT 107	Career Math	3
PHY	Any Physics Course	4-5
		<u>16-17</u>

Discipline Specific Requirements Recommended Sequence:

ELT 106	Fundamentals of DC/AC	4
ELT 112	Advanced DC/AC	3
ELT 134	Solid State Devices I	3
ELT 135	Solid State Devices II	3
ELT 147	Digital Devices I	4
ELT 148	Digital Devices II	3
ELT 165	Electronic Assembly	3
ELT 215	Operational Amplifiers	3
ELT 248	Automated Control Circuits	3
ELT 252	Motors & Controls	3
ELT 257	Sensors & Transducers	3
ELT 258	Programmable Logic Controllers	3
ELT 259	Advanced Programmable Logic Controllers	3
ELT 261	Microprocessors	3
ELT 268	Robotic Technologies	3
ELT 280	Internship	3
		<u>50</u>
Total Credit Hours		66-67

Certificates

Advanced Manufacturing Electronics

CAD 100	Print Reading for Computer Aided Drafting	4
CAD 255	Solid Works/Mechanical	3
CAD 259	Advanced SolidWorks	3
ELT 106	Fundamentals of DC/AC	4
ELT 112	Advanced DC/AC	3
ELT 134	Solid State Devices I	3
ELT 135	Solid State Devices II	3
ELT 147	Digital Devices I	4
ELT 148	Digital Devices II	3
ELT 165	Electronic Assembly	3
ELT 252	Motors & Controls	3
ELT 258	Programmable Logic Controllers	3
		<u>38</u>
Total Credit Hours		38

Automated Systems

CNG 101	Networking Fundamentals	3
ELT 106	Fundamentals of DC/AC	4
ELT 112	Advanced DC/AC	3
ELT 248	Automated Control Circuits	3
ELT 252	Motors & Controls	3
ELT 257	Sensors & Transducers	3
ELT 258	Programmable Logic Controllers	3
ELT 259	Advanced Programmable Logic Controllers	3
ELT 268	Robotic Technologies	3
		<u>28</u>
Total Credit Hours		28

Basic Automation

ELT 252	Motors & Controls	3
ELT 258	Programmable Logic Controllers	3
		<u>6</u>
Total Credit Hours		6

Basic Electricity & Electronics

Gainful Employment Disclosure located at

<http://ppcc.edu/app/catalog/ge/electronics-technology/basic-electricity-electronics-gedt>.

ELT 106	Fundamentals of DC/AC	4
ELT 112	Advanced DC/AC	3
ELT 134	Solid State Devices I	3
ELT 135	Solid State Devices II	3
ELT 147	Digital Devices I	4
ELT 148	Digital Devices II	3
ELT 165	Electronic Assembly	3
		<u>23</u>
Total Credit Hours		23

Basic Electronics

ELT 106	Fundamentals of DC/AC	4
ELT 134	Solid State Devices I	3
ELT 147	Digital Devices I	4
ELT 165	Electronic Assembly	3
		<u>14</u>
Total Credit Hours		14

Basic IPC Soldering

ELT 106	Fundamentals of DC/AC	4
ELT 112	Advanced DC/AC	3
ELT 165	Electronic Assembly	3
		<u>10</u>
Total Credit Hours		10

Intermediate Electronics

ELT 112	Advanced DC/AC	3
ELT 135	Solid State Devices II	3
ELT 148	Digital Devices II	3
		<u>9</u>
Total Credit Hours		9

Emergency Medical Services

Associate of Applied Science Degree

Recommended basic skills standards are

- AAA 090
- CCR 092
- MAT 050

Pikes Peak Community College offers a variety of courses in the Emergency Medical Services field. It is a Colorado Department of Health and Environment, Pre-hospital Care Division approved training center. It has the approval of the State Board for Community Colleges and Occupational Education. The programs are implemented with the cooperation of local medical societies and emergency medical agencies.

Paramedic

This program provides the Emergency Medical Technician at the Paramedic level with the opportunity to complete the educational requirements for the AAS Degree in Emergency Medical Services. Options are designed for the Paramedic level to allow students an opportunity to pursue a career compatible with their interest.

General Education Requirements

BIO 201	Human Anatomy & Physiology I: SC1	4
BIO 202	Human Anatomy & Physiology II: SC1	4
CIS 118	Introduction to PC Applications	3
ENG 121	English Composition I: CO1	3
PSY 101	General Psychology I: SS3	3
		<hr/> 17

Other course requirements

EMS 225	Fundamentals of Paramedic Practice	3
EMS 226	Fundamentals of Paramedic Practice Lab	2
EMS 227	Paramedic Special Considerations	3
EMS 228	Paramedic Special Considerations Lab	2
EMS 229	Paramedic Pharmacology	3
EMS 230	Paramedic Pharmacology Lab	2
EMS 231	Paramedic Cardiology	5
EMS 232	Paramedic Cardiology Lab	1
EMS 233	Paramedic Medical Emergencies	4
EMS 234	Paramedic Medical Emergencies Lab	1
EMS 235	Paramedic Trauma Emergencies	4
EMS 236	Paramedic Trauma Emergencies Lab	1
EMS 237	Paramedic Internship Preparation	2
EMS 280	Paramedic Internship I	6
EMS 281	Paramedic Internship II	6
		<hr/> 45

Total Credit Hours

62

Certificates

Emergency Medical Technician

EMS 121	EMT Fundamentals	3
EMS 122	EMT Medical Emergencies	4
EMS 123	EMT Trauma Emergencies	2
EMS 124	EMT Special Considerations	2
EMS 170	EMT Basic Clinical	1
		<hr/> 12

Total Credit Hours

12

Paramedic

Gainful Employment Disclosure located at

<http://ppcc.edu/app/catalog/ge/emergency-medical-services/emt-paramedic-gedt>.

BIO 201	Human Anatomy & Physiology I: SC1	4
BIO 202	Human Anatomy & Physiology II: SC1	4
EMS 225	Fundamentals of Paramedic Practice	3
EMS 226	Fundamentals of Paramedic Practice Lab	2
EMS 227	Paramedic Special Considerations	3
EMS 228	Paramedic Special Considerations Lab	2
EMS 229	Paramedic Pharmacology	3
EMS 230	Paramedic Pharmacology Lab	2
EMS 231	Paramedic Cardiology	5
EMS 232	Paramedic Cardiology Lab	1
EMS 233	Paramedic Medical Emergencies	4
EMS 234	Paramedic Medical Emergencies Lab	1
EMS 235	Paramedic Trauma Emergencies	4
EMS 236	Paramedic Trauma Emergencies Lab	1
EMS 237	Paramedic Internship Preparation	2
EMS 280	Paramedic Internship I	6
EMS 281	Paramedic Internship II	6
		<hr/> 53

Total Credit Hours

53

Energy Management Technology

Associate of Applied Science Degree

Recommended basic skills standards are

- AAA 109
- CCR 092
- MAT 050

The Energy Management Technology program will provide graduates with skills for numeric quantification of energy-related projects and programs. The focus of study will be commercial systems with an introduction to industrial systems, and will position the graduate for a career in energy management beyond the residential and small commercial realm. Potential work capacities include energy manager or assistant, energy specialist/technician for energy engineering company, technical support for energy services performance contractor or energy services companies (ESPC / ESCO), facilities maintenance energy support specialist, commissioning provider technician, team member in the energy branch of construction contractor, energy technical support or sales position for a product manufacturer, building facilities manager, or building maintenance supervisor.

A cornerstone of the program is the understanding of building systems and their energy use characteristics. With this knowledge comes the ability to identify viable energy saving measures in buildings, communicate effectively with building occupants and owners, and calculate potential savings with good confidence. Additionally, graduates will be well prepared for the Association of Energy Engineers (AEE) Certified Energy Manager program, a widely recognized credential in the industry. The curriculum has been pre-approved by AEE for their EMIT program (Engineering Manager In Training) which allows the graduate to take the technical test in advance of the required years of field experience, and use the designation EMIT by their name during the industry training period following graduation.

General Education Courses

COM 115	Public Speaking	3
ENG 131	Technical Writing I	3
MAT 121	College Algebra: MA1	4
MAT 166	Pre-Calculus: MA1	5
PHY 111	Physics: Algebra-Based I with Lab: SC1	5
PHY 112	Physics: Algebra-Based II with Lab: SC1	5
		<hr/> 25

25

Other Course Requirements

CIS 155	PC Spreadsheet Concepts	3
EGG 243	Engineering Economics	3
ENY 200	Energy Management	4
ENY 201	Alternative Energy Systems	4
ENY 211	Energy Systems and Controls I	5
ENY 212	Energy Systems and Controls II	5
ENY 221	Quantifying Energy Use I	4
ENY 222	Quantifying Energy Use II	4
ENY 241	Energy Engineering Lab	5
HVA 105	Electricity for HVAC/R	4
HVA 204	Direct Digital Controls	4
HVA 259	Introduction to Commercial HVAC Design	4
Total Credit Hours		49
		74

Farrier Science**Certificate**

Students completing the Farrier Science certificate will gain skills necessary for entry level employment in the area of professional Farrier, knowledgeable in the various needs of different horses and horseshoeing needs.

FAS 100	Farrier Science I	4
FAS 110	Farrier Science II	4
FAS 120	Farrier Science III	4
Total Credit Hours		12

Fire Science Technology**Associate of Applied Science Degree**

Recommended basic skills standards are

- CCR 092
- MAT 050

This program is designed to prepare individuals who have little or no experience with the firefighting profession for entry-level positions in the fire service industry. This program is also designed to allow experienced firefighters to receive awarded credits for knowledge gained through experience and training through the Fire Science Credit for Prior Learning Program, after which their learning can be expanded by successfully completing additional courses to complete the degree.

A plan for the entry into and completion of the fire science technology degree should be discussed with the Fire Science faculty advisors. This advising is needed to provide thorough information on the requirements of the degree program as well as to align the courses of the degree with the students' academic and career goals.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)
ENG 122	English Composition II: CO2	3
or		
COM 225	Introduction to Organizational Communication	(3)

MAT 107	Career Math or higher level math	3
POS 111	American Government: SS1	3
or		
PSY 101	General Psychology I: SS3	(3)
		15

Emphasis Areas**Fire Science Management**

EMP 101	Emergency Management	3
FST 105	Building Construction for Fire Protection	3
FST 106	Fire Prevention	3
FST 109	Occupational Safety & Health for Fire	3
FST 201	Instructional Methodology (Fire Instructor I, II)	3
FST 202	Firefighter Strategy & Tactics	3
FST 205	Fire Investigation I	3
FST 206	Fire Company Supervision & Leadership (Fire Officer I)	3
FST 251	Legal Aspects of Fire Service	3
FST 255	Fire Service Management	3
FST 257	Fire Department Administration	3
Technical Electives from list below		12
		45
Total Credit Hours		60

Fire Science Technology

FST 102	Principles/Emergency Services	3
FST 103	Fire Behavior & Combustion	3
FST 105	Building Construction for Fire Protection	3
FST 106	Fire Prevention	3
FST 107	Hazardous Materials Operations (Level I)	3
FST 109	Occupational Safety & Health for Fire	3
FST 201	Instructional Methodology (Fire Instructor I, II)	3
FST 202	Firefighter Strategy & Tactics	3
FST 203	Fire Hydraulics & Water Supply	3
FST 209	Fire Protection Systems	3
FST 259	Wildland Firefighting Strategy & Tactics	3
Technical Electives from list below		12
		45
Total Credit Hours		60

Technical Elective Courses

FST 100	Firefighter I	9
FST 110	Job Placement & Assessment	3
FST 160	Candidate Physical Abilities Preparation	3
Other EMP, EMS, FST, FSW or PSM credits count for Technical Elective courses.		

Certificate**Basic Firefighter****Gainful Employment Disclosure located at**

<http://ppcc.edu/app/catalog/ge/fire-science-technology/basic-firefighter-gedt>.

FST 100	Firefighter I	9
FST 102	Principles/Emergency Services	3
FST 103	Fire Behavior & Combustion	3
FST 107	Hazardous Material Operations (Level I)	3
FST 110	Job Placement & Assessment	3
FST 160	Candidate Physical Abilities Test Prep	3
Total Credit Hours		24

Fire Science Wildland

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

Wildland Firefighting is a firefighting, emergency management and natural resources interdisciplinary career and profession. This degree will allow the student to develop the competencies and skills to enter this expanding career field and will allow the seasoned wildland firefighter to enhance their experience with an academic program. This degree will prepare you to operate in multiple agency jurisdictions, apply standardized wildland firefighting principles as identified by the National Wildland Coordinating Group; introduce you to the principles of emergency management preparedness, mitigation, response, and recovery; and prepare you to attain a career and to enhance a career in wildland firefighting and related disciplines.

A plan for entry into and completion of the Fire Science Wildland degree should be discussed with one of the Fire Science Coordinators or Faculty. This advising is needed to provide thorough information on the degree requirements and to align the student's experience and certifications to the degree for credit for prior learning, if appropriate, and to advise on the student's academic and career goals.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)
ENG 122	English Composition II: CO2	3
or		
COM 225	Introduction to Organizational Communication	(3)
MAT 107	Career Math or higher level math	3
POS 111	American Government: SS1	3
or		
PSY 100	Psychology of Workplace Relationships	(3)
		<u>15</u>

Technical Courses

EMP 101	Principles of Emergency Management	3
FST 103	Fire Behavior & Combustion	3
FST 109	Occupational Safety & Health for Fire	3
FST 202	Strategy & Tactics	3
FST 258	Wildland Fire Incident Management & Organization	3
FST 259	Wildland Firefighting Strategy & Tactics	3
FSW 100	S-190 Introduction to Wildland Fire Behavior	1
FSW 101	S-130 Firefighting Training	2
FSW 144	S-215 Fire Operations in the Wildland/Urban Interface	2
FSW 153	SO-290 Intermediate Wildland Fire Behavior	2
PSM 200	National Incident Management System/Interagency Operations	3
Elective	Technical courses	17
		<u>45</u>
Total Credit Hours		60

Technical Elective Courses

Any other EMP, EMS, FST, FSW or PSM credits count for Technical Elective courses

Geographic Information Systems

Associate of Applied Science

Recommended basic skills standards are

- CCR 092
- MAT 055

The Geographic Information Systems Associate of Applied Science Degree is a program that integrates the mapping sciences, geographic information systems technology, and spatial analysis in a program related to computer supported data storage, management, and display functions. The program offers students the opportunity to develop the skills and abilities required of professionals in geographic information systems and related fields. Geospatial techniques are used to aid in decision making in fields as diverse as business, marketing, homeland security, public policy, environment, engineering, public health, archeology and criminal justice by identifying patterns between graphical information (maps) and data.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
ENG 131	Technical Writing I	3
or		
ENG 121	English Composition I: CO1	(3)
MAT 135	Introduction to Statistics: MA1	3
and		
MAT 179	Computer Applications for Statistical Procedures	1
or		
MAT 121	College Algebra: MA1	(4)
GEO 105	World Regional Geography: SS2	3
GEO 111	Physical Geography – Landforms: SC1	4
		<u>17</u>

Other Course Requirements

GIS 101	Introduction to Geographic Information Systems	3
GIS 110	Introduction to Cartography	3
GIS 131	Global Positioning Systems for Global Information Systems	3
GIS 165	GIS Project Management	3
GIS 210	Intermediate Geographic Information Systems	3
GIS 211	Spatial Data Modeling & Analysis	4
GIS 212	Remote Sensing & Digital Image Processing	4
GIS 280	Internship	4
Elective	Choose sixteen (16) from electives list below	16
		<u>43</u>

Total Credit Hours 60

Approved Electives

CIS 240	Database Design & Development	3
CIS 243	Introduction to Structured Query Language (SQL)	3
CSC 160	Computer Science I: (Language)	3
CSC 240	Java Programming	3

Any GIS course not already included in the required list of GIS courses above.

NOTE: The Department Chair may approve additional elective choices.

Certificate

Gainful Employment Disclosure located at
<http://ppcc.edu/app/catalog/ge/geographic-information-systems/geographic-information-systems-gedt>.

The Geographic Information Systems certificate is designed to develop skills and abilities necessary for successful employment using GIS applications. GIS is a computer based data processing tool used to map, manage, analyze, display and model spatial information.

Enrolling students must be computer literate.

GIS 101	Introduction to Geographic Information Systems	3
GIS 210	Intermediate Geographic Information Systems	3
GIS 211	Spatial Data Modeling & Analysis	4
GIS 212	Remote Sensing & Digital Image Processing	4
GIS 280	Internship	2
Elective	Choose three (3) credits from any other GIS course offering	3

Total Credit Hours

19

Heating, Air Conditioning and Refrigeration Technology

Associate of Applied Science Degree

Recommended basic skills standards are

- AAA 109
- CCR 092
- MAT 050

This program prepares students to enter the heating, air conditioning and refrigeration field. This field of work involves different trade disciplines. The two-year program of core courses trains students in residential and commercial heating, ventilation, air conditioning, and refrigeration. The emphasis will be on the servicing and maintenance of equipment found in residences, commercial buildings, and large facilities.

The AAS degree should enhance students' initial entry placement and better prepare them for upward mobility within any of the three option areas.

All students should schedule advising appointments with the Heating, Air Conditioning, and Refrigeration program advisor before enrolling in classes.

For success in this program the faculty recommends proficiency in math, reading, and English.

Students may wish to attend summer classes to fulfill their general education course requirements, thereby reducing their fall and spring semester loads.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
COM 125	Interpersonal Communication	3
ENG 131	Technical Writing I	3
MAT 107	Career Math	3
PSY 100	Psychology of Workplace Relationships	3

15

Other course requirements

HVA 102	Basic Refrigeration	4
HVA 105	Electricity for HVAC/R	4
HVA 110	Fundamentals of Gas Heating	4
HVA 111	Piping Skills	4
HVA 113	Refrigerant Recovery Training	1
HVA 118	Customer Soft Skills (Customer Services & Ethics)	2
HVA 132	Air Conditioning & Refrigeration Controls	4
HVA 142	Residential Air Conditioning	4
HVA 146	Residential Load Calculation & Duct Design	4
HVA 201	Heating For Commercial	3
HVA 204	Direct Digital Controls	4
HVA 206	International Mechanical Code	4
HVA 233	Advanced Refrigeration	4
HVA 241	Advanced Air Conditioning	3
HVA 262	Residential Heat Pump Service	2
HVA 280	Internship	2

52

Total Credit Hours

68

Certificates

Direct Digital Controls

Students completing the Direct Digital Controls certificate will gain skills necessary for entry level employment in the area of environmental controls as they pertain to the HVAC systems found in modern commercial and industrial buildings.

Students entering this certificate program will have demonstrated prior work experience of no less than four years or completion of an Associates of Applied Science Degree in HVAC or Facilities Maintenance Technology from an accredited college.

ELT 101	Survey of Electronics	3
HVA 251	Building Automation I, Installer	4
HVA 252	Building Automation II, Service	4
HVA 253	Building Automation III, Advanced Operations	4

Total Credit Hours

15

Industry Upgrade

Gainful Employment Disclosure located at
<http://www.ppcc.edu/app/catalog/ge/hvac-technology/residential-hvac-gedt>.

The Industry Upgrade certificate is designed for technicians currently employed in the HVAC&R field who want to upgrade their skills. The courses within this certificate option are constantly updated to include discussion of new technologies and equipment found in large modern facilities.

HVA 201	Heating For Commercial	3
HVA 204	Direct Digital Controls	4
HVA 233	Advanced Refrigeration	4
HVA 241	Advanced Air Conditioning	3
HVA 262	Residential Heat Pump Service	2
HVA 280	Internship	2

Total Credit Hours

18

Residential HVAC

Gainful Employment Disclosure located at
<http://www.ppcc.edu/app/catalog/ge/hvac-technology/industry-upgrade-gedt>.

The Residential HVAC certificate option provides a student with entry-level skills as a helper or apprentice in the installation, repair, and service of residential heating, ventilating, air conditioning, and refrigeration equipment found in today's residences.

HVA 102	Basic Refrigeration	4
HVA 105	Electricity for HVAC/R	4
HVA 110	Fundamentals of Gas Heating	4

HVA 111	Piping Skills	4
HVA 113	Refrigerant Recovery Training	1
HVA 118	Customer Soft Skills (Customer Services & Ethics)	2
HVA 132	Air Conditioning & Refrigeration Controls	4
HVA 142	Residential Air Conditioning	4
HVA 146	Residential Load Calculation & Duct Design	4
HVA 206	International Mechanical Code	4
Total Credit Hours		35

Homeland Security Emergency Management

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

The Homeland Security/Emergency Management degree develops the competencies and skills necessary to address manmade and natural disasters. This program will prepare you to make decisions, problem solve, plan, implement, and coordinate resources necessary for preparedness, mitigation, response, and recovery from possible disasters. This Associate of Applied Science Degree is designed for students new to this field, as well as students in public safety professions who are looking to upgrade their competencies and skills.

General Education Courses

CSC 105	Computer Literacy	3
ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)
MAT 107	Career Math or higher math course	3
POS 111	American Government: SS1	3

Choose one class from the following

ANT 101	Cultural Anthropology: SS3	3
or		
PSY 100	Psychology of Workplace Relationships	(3)
or		
SOC 101	Introduction to Sociology I: SS3	(3)
		15

Required Courses

EMP 101	Principles of Emergency Management	3
EMP 105	Emergency Planning	3
EMP 106	Exercise Design Evaluation	3
EMP 107	Emergency Operation Centers & Communication	3
PSM 130	Homeland Security Law	3
PSM 132	Homeland Defense: Forecasting Terrorism	3
PSM 133	Homeland Security: Chemical & Biological Defense	3
PSM 200	Nat'l Incident Mgmt. System/Interagency Operations	3
Elective Courses (21 credit hours)		21
Total Credit Hours		60

Approved Electives

ANT, CRJ, ECO, EMP, EMS, FST, GIS, HIS, MAN, POS, PSY, SOC and other PPCC college classes.

Certificate

Gainful Employment Disclosure located at

<http://www.ppcc.edu/app/catalog/ge/homeland-security-emergency-management-gedt>.

EMP 101	Principles of Emergency Management	3
EMP 105	Emergency Planning	3
EMP 106	Exercise Design Evaluation	3
EMP 107	Emergency Operation Centers & Communication	3
PSM 130	Homeland Security Law	3
PSM 132	Homeland Defense: Forecasting Terrorism	3
Total Credit Hours		18

Interior Design

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

The Interior Design program provides students an opportunity to develop an understanding of the principles and elements of design and to study technical and visual interior elements as well as professional business practices related to the multi-faceted design industry. Students have the opportunity for more in-depth study of residential or commercial design through studio classes. The educational experience is enhanced with an internship.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

ART 110	Art Appreciation: AH1	3
COM 115	Public Speaking	3
CSC 105	Computer Literacy	3
ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)
MAT 107	Career Math	3
		15

Other Course Requirements

CAD 105	AutoCAD for Interiors	4
IND 100	Interior Design Fundamentals	4
IND 107	History of Interior Design	3
IND 111	Drafting for Interiors	4
IND 113	Perspective & Rendering	3
IND 117	Interior Textiles	2
IND 118	Interior Finishes	2
IND 120	Interior Design II: Space Planning & Human Factors	3
IND 151	Residential Design	4
IND 161	Introduction to Kitchen & Bath Design	3
IND 201	Commercial Design	4
IND 205	Professional Practice for Interior Designers	2
IND 211	Interior Construction	4
IND 220	Interior Design III: Materials, Details, Codes & Specs	3
IND 225	Lighting Design	3
IND 288	Practicum	1
IND 289	Capstone: Advanced Design	3
Electives from list below		8
		60

Total Credit Hours 75

Approved Electives

ART 150	Digital Art Foundations I	3
CAD 115	Sketchup	3
CAD 215	Advanced CAD for Interiors	3
CAD 219	3DS Max	3
CAD 224	Revit Architecture	3
IND 152	Commercial Design I	2
IND 231	Sustainable Design	3
IND 261	Advanced Kitchen & Bath	4
IND 278	Workshop: Design Portfolio	1
IND 280	Internship	2
MGD 112	Adobe Illustrator I	3

Machining**Associate of Applied Science Degree***Pending State Approval*

Recommended basic skills standards are

- AAA 109
- CCR 092
- MAT 050

There are two AAS degree emphasis in the Machining Technology program; Machining Technology Emphasis and Advanced Manufacturing Emphasis. These two year programs are designed to provide individuals with entry level machining and technology skills, as well as addressing the needs of those seeking upgrade training for the purpose of continuing employment, employment upgrades, and/or promotions.

The Machining Technology emphasis degree will advance their hands-on fundamental skills of machining using MasterCAM 2D and 3D software, while developing applied math skills and problem-solving techniques

The Advanced Manufacturing emphasis will provide training in technology using software such as SolidWorks, MasterCAM 2D and 3D, and CamWorks. The emphasis also offers courses in Geometric Dimensioning and Tolerance (GD &T) and 3D Printing for prototyping.

Students should schedule a meeting with the Machining Technology program advisor prior to enrolling in classes. During this meeting, student's goals and preparedness can be assessed.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

Students must meet with an advisor to select appropriate technical electives.

General Education Courses

CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
COM 225	Organizational Communication	3
ENG 131	Technical Writing I	3
MAT 107	Career Math or higher	3
	Three (3) additional credit hours from list below	3
		15

Select three (3) credit hours

BUS 115	Introduction to Business	3
COM 125	Interpersonal Communication	3
PSY 100	Psychology of Workplace Relationships	3

Emphasis Areas**Machining Technology**

MAC 100	Machine Shop Safety	1
MAC 101	Introduction to Machine Shop	3
MAC 102	Blueprint Reading	3
MAC 110	Introduction to Engine Lathe	3
MAC 111	Intermediate Engine Lathe	3
MAC 112	Advanced Engine Lathe	3
MAC 120	Introduction to Milling Machine	3
MAC 121	Intermediate Mill Machine	3
MAC 122	Advanced Milling Machine Operations	3
MAC 205	Introduction to CNC Milling Operations	3
MAC 206	CNC Milling Operations II	3
MAC 240	CAD/CAM 2D	3
MAC 241	CAD/CAM 2D Lab	3
MAC 245	CAD/CAM 3D	3
MAC 246	CAD/CAM 3D Lab	3
MAC 252	Practical Metallurgy	3
MTE 130	Metrology	3
		49

Total Hours for Machining Technology Degree Emphasis 64**Advanced Manufacturing**

CAD 100	Print Reading for CAD	3
CAD 255	SolidWorks/Mechanical	3
CAD 259	Advanced SolidWorks	3
CAD 262	3D Printing	3
EGT 205	Geometric Dimensioning & Tolerance	3
MAC 100	Machine Shop Safety	1
MAC 101	Introduction to Machine Shop	3
MAC 110	Introduction to Engine Lathe	3
MAC 111	Intermediate Engine Lathe	3
MAC 120	Introduction to Milling Machine	3
MAC 121	Intermediate Mill Machine	3
MAC 205	Introduction to CNC Milling Operations	3
MAC 206	CNC Milling Operations II	3
MAC 240	CAD/CAM 2D	3
MAC 241	CAD/CAM 2D Lab	3
MAC 252	Practical Metallurgy	3
MTE 130	Metrology	3
		49

Total Hours for Advanced Manufacturing Degree Emphasis 64**Certificates*****Advanced Machining Technology**

MAC 112	Advanced Engine Lathe	3
MAC 122	Advanced Milling Machine Operations	3
MAC 240	CAD/CAM 2D	3
MAC 241	CAD/CAM 2D Lab	3
MAC 245	CAD/CAM 3D	3
MAC 246	CAD/CAM 3D Lab	3
MAC 252	Practical Metallurgy	3
		21

Total Credit Hours 21****Advanced Manufacturing Machining**

CAD 100	Print Reading for Computer Aided Drafting	3
CAD 255	SolidWorks/Mechanical	3
CAD 259	Advanced Solidworks	3
CAD 262	Printing/Additive Manufacturing	3
EGT 205	Geometric Dimensioning & Tolerance	3
MAC 100	Machine Shop Safety	1
MAC 101	Introduction to Machine Shop	3
MAC 110	Introduction to Engine Lathe	3
MAC 120	Introduction to Milling Machine	3
MAC 205	Introduction to CNC Milling Operations	3

MAC 206	CNC Milling Operations II	3	careers compatible with their interest and abilities. A single option or a combination of options may be pursued.
MAC 240	CAD/CAM 2D	3	
MAC 241	CAD/CAM 2D Lab	3	
MAC 252	Practical Metallurgy	3	Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have permission of coordinator to enroll.
MTE 130	Metrology	3	Students must have a grade of C or better in all classes to pass program/certification requirements.
Total Credit Hours		43	

***Basic Machining Technology**

MAC 100	Machine Shop Safety	1	Medical facilities require proof of vaccines or titers for: tuberculin skin tests, proof of measles, rubella and rubeola, proof of hepatitis B, current year flu vaccination and a current tetanus. Phlebotomy students must also provide proof of chicken pox disease, vaccine, or titer. Prior to internships the student must also take a physical exam by their private physician at their own cost.
MAC 101	Introduction to Machine Shop	3	
MAC 102	Blueprint Reading	3	
MAC 110	Introduction to Engine Lathe	3	
MAC 111	Intermediate Engine Lathe	3	
MAC 120	Introduction to Milling Machine	3	
MAC 121	Intermediate Mill Machine	3	Facilities such as physician's offices, clinics or hospitals require criminal background checks on all students. For specifics disqualifiers on the background investigation, students should contact a MOT faculty advisor. Students who do not obtain a PPCC approved criminal background investigation will not be allowed to enroll in internship classes or phlebotomy classes. Students are also required to take and pass drug and alcohol screening prior to their internships or phlebotomy classes. Failure to pass the above tests will result in the inability to complete the desired certification or degree.
Total Credit Hours		19	

****Basic Manufacturing Machining**

CAD 100	Print Reading for Computer Aided Drafting	3	
CAD 255	SolidWorks/Mechanical	3	
MAC 100	Machine Shop Safety	1	
MAC 101	Introduction to Machine Shop	3	
MAC 252	Practical Metallurgy	3	
MTE 130	Metrology	3	
Total Credit Hours		16	

Medical Assistant

This Associate of Applied Science degree option is designed to prepare individuals to work in both administrative and clinical areas of medical clinics or physicians' offices or as hospital unit secretary positions. Students successfully completing this degree program will be able to perform the administrative tasks of a medical receptionist and work in the clinical areas by providing assistance with physical examinations, diagnostic tests, and treatment procedures.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have permission of coordinator to enroll.

General Education Courses

CIS 118	Introduction to PC Applications	3
COM 225	Organizational Communication	3
ENG 131	Technical Writing I	3
MAT 107	Career Math	3
PSY 101	General Psychology I: SS3	3
		15

Other Course Requirements

HPR 178	Medical Terminology	2
HPR 208	Advanced Medical Terminology	2
HWE 103	Community First Aid & CPR	1
MOT 110	Medical Office Administration	4
MOT 120	Medical Office Financial Management	3
MOT 124	Medical Filing	2
MOT 125	Basic Medical Sciences I	3
MOT 133	Basic Medical Sciences II	3
MOT 135	Basic Medical Sciences III	3
MOT 136	Introduction to Clinical Skills	2
MOT 138	Medical Assisting Laboratory Skills	4
MOT 140	Medical Assisting Clinical Skills	4
MOT 150	Pharmacology for Medical Assistants	3
MOT 183	Medical Assistant Internship	5
MOT 189	Review for Medical Assistant National Examination	1

Student must take one of the following groups up to 6 credits

MOT 208	Introduction to CPT-4 Coding	2
MOT 209	Introduction to ICD-9 Coding	2
MOT 210	Intermediate Coding	3

MAC 206	CNC Milling Operations II	3
MAC 240	CAD/CAM 2D	3
MAC 241	CAD/CAM 2D Lab	3
MAC 252	Practical Metallurgy	3
MTE 130	Metrology	3

Total Credit Hours 43***Basic Machining Technology**

MAC 100	Machine Shop Safety	1
MAC 101	Introduction to Machine Shop	3
MAC 102	Blueprint Reading	3
MAC 110	Introduction to Engine Lathe	3
MAC 111	Intermediate Engine Lathe	3
MAC 120	Introduction to Milling Machine	3
MAC 121	Intermediate Mill Machine	3

Total Credit Hours 19****Basic Manufacturing Machining**

CAD 100	Print Reading for Computer Aided Drafting	3
CAD 255	SolidWorks/Mechanical	3
MAC 100	Machine Shop Safety	1
MAC 101	Introduction to Machine Shop	3
MAC 252	Practical Metallurgy	3
MTE 130	Metrology	3

Total Credit Hours 16****CNC Machining**

CAD 262	Printing/Additive Manufacturing	3
EGT 205	Geometric Dimensioning & Tolerance	3
MAC 205	Introduction to CNC Milling Operations	3
MAC 206	CNC Milling Operations II	3

Total Credit Hours 12****Intermediate Manufacturing Machining**

CAD 259	Advanced Solidworks	3
MAC 110	Introduction to Engine Lathe	3
MAC 120	Introduction to Milling Machine	3
MAC 240	CAD/CAM 2D	3
MAC 241	CAD/CAM 2D Lab	3

Total Credit Hours 15

*Note: These certificates build on one another. There is also the opportunity to receive more certifications should the student pass the exam NIMS Level One Certification.

**Note: The following certificates build on one another. After three semesters a student would achieve the four certificates below. there is also the opportunity to receive two more certifications should the student pass the exams: CSWA: Certification SolidWorks Associate National Certification and a NIMS Level One Certification.

Medical Office Technology

Associate of Applied Science Degree

Recommended basic skills standards are

- AAA 090
- CCR 092
- MAT 050

The area of Medical Office Technology is designed to prepare individuals to assist with clinical and administrative functions as employees within the health care system of the community. All students become familiar with the health care system, medical terminology, and interpersonal relationships. Four certificate options and one associate of applied science degree option are available within the Medical Office Technology program. These options are designed to allow students an opportunity to pursue

MOT 131	Advanced Insurance Billing & Coding	3
or		
HPR 101	Customer Service in Healthcare	(2)
and		
HPR 112	Phlebotomy	(4)
Total Credit Hours		48

Certificates

Clinical Office Assistant

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/medical-office-technology/clinical-office-assistant-gedt>.

This certificate option is designed to prepare individuals to work in clinics or physicians' offices as clinical assistants or aides. Students successfully completing this course of study will be able to receive and prepare patients for various laboratory examinations. Successful graduates from this option will also be able to provide physician's assistants with physical examinations, diagnostic tests, and treatment procedures. Credits from this certificate may be transferred to the Medical Assistant AAS degree program.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have permission of coordinator to enroll.

CIS 118	Introduction to PC Applications	3
ENG 131	Technical Writing I	3
or		
COM 225	Organizational Communication	(3)
HPR 178	Medical Terminology	2
HPR 208	Advanced Medical Terminology	2
HWE 103	Community First Aid & CPR	1
MOT 110	Medical Office Administration	4
MOT 125	Basic Medical Sciences I	3
MOT 133	Basic Medical Sciences II	3
MOT 135	Basic Medical Sciences III	3
MOT 136	Introduction to Clinical Skills	2
MOT 138	Medical Assisting Laboratory Skills	4
MOT 140	Medical Assisting Clinical Skills	4
MOT 150	Pharmacology for Medical Assistants	3
MOT 182	Clinical Internship	3
Total Credit Hours		40

Medical Coding Specialist

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/medical-office-technology/medical-coding-specialist-gedt>.

This certificate option is designed to train students to code and bill physician services in the ambulatory care settings. This course prepares the student to take the National Accrediting exam with AHIMA & AAPC. Credits from this Medical Coding Certificate program may be transferred to the Medical Assistant AAS degree.

CIS 118	Introduction to PC Applications	3
HPR 178	Medical Terminology	2
HPR 208	Advanced Medical Terminology	2
MOT 125	Basic Medical Sciences I	3
MOT 131	Advanced Insurance Billing & Coding	3
MOT 133	Basic Medical Sciences II	3
MOT 135	Basic Medical Sciences III	3
MOT 208	Introduction to CPT-4 Coding	2
MOT 209	Introduction to ICD-9 Coding	2
MOT 210	Intermediate Coding	3
Total Credit Hours		26

Medical Receptionist

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/medical-office-technology/medical-receptionist-gedt>.

This certificate option is designed to prepare individuals to work as receptionists in the health care industry. Students successfully completing this course of study will be able to register new patients, use proper telephone techniques, schedule appointments, file medical records, process mail, and type and transcribe miscellaneous medical reports. Students will gain exposure to both computerized and manual systems to organize a medical office. Credits from this program may be transferred to the Medical Assistant AAS degree option.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have permission of coordinator to enroll.

CIS 118	Introduction to PC Applications	3
ENG 131	Technical Writing I	3
or		
COM 225	Organizational Communication	(3)
HPR 178	Medical Terminology	2
HPR 208	Advanced Medical Terminology	2
HWE 103	Community First Aid & CPR	1
MOT 110	Medical Office Administration	4
MOT 120	Medical Office Financial Management	3
MOT 124	Medical Filing	2
MOT 131	Advanced Insurance Billing & Coding	3
MOT 136	Introduction to Clinical Skills	2
MOT 181	Administrative Internship	2
MOT 208	Introduction to CPT-4 Coding	2
MOT 209	Introduction to ICD-9 Coding	2
MOT 210	Intermediate Coding	3
Total Credit Hours		34

Phlebotomy

In the Phlebotomy certificate program, students will learn theory, anatomy and physiology, microbiology, and proficiency in collection of tissue and blood samples from patients in a variety of settings. Students will also learn customer service and communication skills necessary to work with patients. Career options are covered, and students will be prepared for a career in phlebotomy. Upon completion of the required courses, students will receive a certificate of phlebotomy from PCC and will qualify to take the National Registry Board Exam for Registered Phlebotomy Technician (RPT). Students must be 18 years of age to register for HPR 112 and HPR 113. This certificate can be completed within two semesters if coursework is completed as advised.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have permission of coordinator to enroll.

HPR 101	Customer Service in Healthcare	2
HPR 106	Law & Ethics for Health Professionals	2
HPR 112	Phlebotomy	4
HPR 113	Advanced Phlebotomy	4
HPR 178	Medical Terminology	2
HPR 208	Advanced Medical Terminology	2
Total Credit Hours		16

Multimedia Graphic Design

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092

This program prepares the students for entry-level work in some of the following creative and exciting areas: graphic design, photo enhancement, digital illustration, interactive media digital video production, web design, animation, and production layout. Students receive a blend of knowledge in color, design, computer software, typography, and drawing. Students will also choose from a variety of course electives.

Maximizing student success in the Multimedia Graphic Design program is the department goal. The program faculty recommends that students develop the following desirable skill and knowledge foundations to enhance student success:

- Advanced college level study skills
- Working knowledge of algebraic principles and basic measurement
- College-level reading, writing, comprehension, and study skills
- Working knowledge and application of college-level English
- Demonstrated time management skills
- Keyboarding, mouse and computer experience (will be taught in MGD 102). It is strongly recommended that students see an advisor for program planning.

Students may complete basic skill deficiencies concurrently with the beginning courses in the program. Students must arrange with advisors to remedy deficiencies in program requirements. Please call 719-502-3143 for advising.

General Education Courses for all emphasis areas

ART 110	Art Appreciation: AH1	3
or		
ART 111	Art History Ancient to Medieval: AH1	(3)
CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
or		
CSC 120	Problem Solving with (Software Package)	(3)
ENG 121	English Composition I: CO1	3
or		
ENG 131	Technical Writing I	(3)
MAT 107	Career Math	3
or		
MAT 112	Financial Mathematics	(3)

General Education Elective

Choose from the AAS general education list can be found on page 80

15

Required MGD courses

MGD 102	Introduction to Multimedia	3
MGD 103	Production Design	3
MGD 109	Design & Color	3
or		
ART 131	Visual Concepts 2-D Design	(3)
MGD 111	Adobe Photoshop I	3
MGD 112	Adobe Illustrator I	3
MGD 113	QuarkXPress	3
MGD 116	Typography I	3
MGD 134	Drawing for Illustrators	3
MGD 141	Web Design I	3
MGD 213	Electronic PrePress	3
MGD 221	Computer Graphics I	3

MGD 289	Capstone	2
Elective	Choose fifteen (15) hours from the list below	15
		50
Total Credit Hours		65

MGD Electives

ART 138	Film Photography I	3
ART 139	Digital Photography I	3
MGD 106	Creativity & Visual Thinking	3
MGD 107	History of Design	2
MGD 108	History of Illustration	2
MGD 110	Lettering for Graphic Design	2
MGD 114	Adobe InDesign	3
MGD 121	Painter for Digital Media	3
MGD 132	Design & Color II	3
MGD 143	Motion Graphic Design I	3
MGD 153	3-D Animation	3
MGD 161	Director I	3
MGD 164	Digital Video Editing I	3
MGD 165	After Effects I	3
MGD 178	Seminar/Workshop	1
MGD 180	Internship	3
MGD 201	Children's Book Illustration	3
MGD 202	Point of Purchase Packaging Design	3
MGD 207	Illustration I	3
MGD 208	Illustration II	3
MGD 209	Illustration III	3
MGD 211	Adobe Photoshop II	3
MGD 212	Adobe Illustrator II	3
MGD 215	Painting for Illustrators	3
MGD 222	Computer Graphics II	3
MGD 241	Web Design II	3
MGD 243	Web Motion Graphic Design II	3
MGD 259	Management & Production	3
MGD 264	Digital Video Editing II	3
MGD 265	After Effects II	3
MGD 266	DVD Authoring	3
MGD 268	Business for Creatives	3
RTV 108	Principles of Audio	3
RTV 208	Basic Video Production	3
RTV 218	Advanced Video Production	3

Certificates

Digital Image

ART 139	Digital Photography I	3
or		
ART 138	Film Photography I	(3)
MGD 109	Design & Color	3
MGD 111	Adobe Photoshop I	3
MGD 112	Adobe Illustrator I	3
MGD 211	Adobe Photoshop II	3

Total Credit Hours

15

Design to Print

Gainful Employment Disclosure located at

<http://www.pccc.edu/app/catalog/ge/multimedia-graphic-design/design-to-print-gedt>.

MGD 109	Design & Color	3
or		
ART 131	Visual Concepts 2-D Design	(3)
MGD 111	Adobe Photoshop I	3
MGD 112	Adobe Illustrator I	3
MGD 113	QuarkXPress	3
MGD 213	Electronic Pre-Press	3
MGD 221	Computer Graphics I	3
MGD 222	Computer Graphics II	3

Total Credit Hours

21

Illustration

Gainful Employment Disclosure located at

<http://www.ppcc.edu/app/catalog/ge/multimedia-graphic-design/illustration-gedt>.

MGD 109	Design & Color	3
MGD 111	Adobe Photoshop I	3
MGD 112	Adobe Illustrator I	3
MGD 207	Illustration I	3
MGD 208	Illustration II	3
MGD 209	Illustration III	3
MGD 215	Painting for Illustrators	3

Total Credit Hours **21**

Video Production and Editing

Gainful Employment Disclosure located at

<http://www.ppcc.edu/app/catalog/ge/multimedia-graphic-design/video-production-editing-gedt>.

MGD 109	Design & Color	3
MGD 111	Adobe Photoshop I	3
MGD 164	Digital Video Editing I	3
MGD 165	After Effects I	3
MGD 264	Digital Video Editing II	3
MGD 265	After Effects II	3
MGD 266	DVD Authoring	3
RTV 108	Principles of Audio	3
RTV 208	Basic Video Production	3

Total Credit Hours **27**

Web Design

Gainful Employment Disclosure located at

<http://www.ppcc.edu/app/catalog/ge/multimedia-graphic-design/web-design-gedt>.

MGD 109	Design & Color	3
MGD 111	Adobe Photoshop I	3
MGD 112	Adobe Illustrator I	3
MGD 141	Web Design I	3
MGD 143	Motion Graphic Design I	3
MGD 241	Web Design II	3
MGD 243	Web Motion Graphic Design II	3

Total Credit Hours **21**

Nursing

Pikes Peak Community College offers the following programs:

- Registered Nurse Associate of Applied Science Degree
- Registered Nurse Associate of Applied Science Degree with PN Exit Option
- Registered Nurse Associate of Applied Science Degree for Advanced Placement (LPN-RN/)
- Nursing Assistant Certificate

Admission to the college does not assure admission to the registered nursing programs. Admission to the RN program with the LPN exit option and the Advanced Placement option require separate admission criteria. All students interested in the registered nursing programs who do not have previous college courses must complete the PPCC placement exams prior to being advised. Potential students should attend Information Nights held each month to obtain information prior to advising. Interested students can inquire on times by calling (719) 502-3400 or 502-3450. Students should complete the application to the PPCC nursing program by picking up a copy of the application from the HENPS division or downloading a copy from the PPCC nursing website at www.ppcc.edu/departments/nursing/.

This should be performed when all pre-requisites are completed with a minimum GPA of 2.5 with a minimum grade of C in each

course. Students must pass an FBI fingerprinting screen to determine application eligibility. Students interested in the Nursing Assistant Certificate should apply directly to the college and then sign up for appropriate classes. All students will be required to meet regulations regarding CPR, immunizations and disability issues. It is the policy of the PPCC Program of Nursing to provide reasonable accommodation to qualified students with disabilities. Whether or not a requested accommodation is reasonable will be determined on an individual basis. Determining what is a reasonable accommodation is an interactive process which the students should initiate with OASIS.

Nursing: Registered Nurse

Associate of Applied Science Degree with Licensed Practical Nurse Exit Option

Recommended basic skills standards are:

- BIO 111
- CCR 092
- MAT 050

The Registered Nursing program is an Associate of Applied Science program. Nursing courses begin in the fall or spring and may be completed in 4 semesters. Admission criteria for the state community college nursing programs are standardized. They are subject to change. PPCC nursing program maintains a competitive admission process. Students should complete the nursing program application to the PPCC nursing program after completing all pre-requisites by picking up a copy of the application from the HENPS division or downloading a copy from the PPCC nursing website at www.ppcc.edu/departments/nursing/.

Prerequisite Courses

BIO 201	Human Anatomy & Physiology I: SC1	4
BIO 202	Human Anatomy & Physiology II: SC1	4
BIO 204	Microbiology: SC1	4
ENG 121	English Composition I: CO1	3
PSY 235	Human Growth & Development: SS3	3

Total Prerequisite Credits **18**

- All Biology (BIO) prerequisites must be completed within seven (7) years of entry into CCCS nursing programs
- All courses must have a minimum of C grade with an overall GPA of 2.5 in the pre-requisites.
- Students will be asked to complete a Nurse Entrance Test at time of application. Please see the nursing application for more information
- Upon provisional acceptance, the program will notify the student of dates needed to obtain additional information such as:
 - Criminal background check/drug testing
 - Health statement/immunizations
 - CPR for adult /child

Nursing Curriculum

Year I First Semester

HPR 108	Nutrition	1
MAT 103	Math for Clinical Calculations	3
NUR 109	Fundamentals of Nursing	8
NUR 112	Basics of Pharmacology	2

Year I Second Semester

BIO 216	Human Pathophysiology	4
NUR 106	Medical Surgical Nursing Concepts	9
NUR 150	Obstetric & Pediatric Nursing	7
NUR 169	Transition into Practical Nursing (optional summer only)	(5)

Year II First Semester

NUR 206	Advanced Concepts of Medical-Surgical Nursing I	8
NUR 211	Nursing Care of Psychiatric Clients	4
NUR 212	Advanced Concepts of Pharmacology	2

Year II Second Semester

NUR 216	Advanced Concepts of Medical-Surgical Nursing II	6
NUR 230	Leadership, Management & Trends	5
	Humanities or Social Behavior Elective from gtPathways	3

Total Nursing Credits	62
------------------------------	-----------

Total Credits	80
----------------------	-----------

Students are eligible to apply to write the NCLEX-PN at the successful completion of the first year of nursing courses and NUR 169 Transition into Practical Nursing (minimum of C grade). Students are eligible to apply to write to NCLEX-RN at the successful completion of the second year of nursing courses. Students may also complete any of the other general education/science courses prior to entry in nursing courses.

Nursing: LPN Advanced Placement Option**Associate of Applied Science Degree**

Recommended basic skills standards are:

- Basic Computer Literacy
- BIO 111
- CCR 092
- MAT 050

Pikes Peak Community College offers an advanced placement associate degree program for licensed practical nurses. Prior LPN course work from an accredited practical/vocational nursing program within the USA and a Colorado LPN license in good standing transfer for 27 credits.

Admission criteria for the state community college nursing programs are standardized and subject to change. PPCC nursing program maintains a competitive admission process. Students should complete the LPN to RN nursing program application to the PPCC nursing program after completing all pre-requisites by picking up a copy of the application from the Health & Science division or downloading a copy from the PPCC nursing website at www.ppcc.edu/departments/nursing/. Students must pass the FBI fingerprinting screen to determine application eligibility.

Prerequisite Courses

Must be completed with a minimum GPA of 2.5

BIO 201	Human Anatomy & Physiology I: SC1	4
BIO 202	Human Anatomy & Physiology II: SC1	4
BIO 204	Microbiology: SC1	4
ENG 121	English Composition I: CO1	3
PSY 235	Human Growth & Development: SS3	3

Must be completed prior to entry with a minimum grade of C

BIO 216	Human Pathophysiology	4
HPR 108	Nutrition	1
MAT 103	Math for Clinical Calculations	3
NUR 189	Transition from LPN to ADN (Taken only after acceptance)	4

Other requirements are the same as the Registered Nurse Associate of Applied Science Degree with the PN exit option. Details on the nursing programs can be found on the PPCC website under nursing.

NUR 206	Advanced Concepts of Medical-Surgical Nursing I	8
NUR 211	Nursing Care of Psychiatric Clients	4
NUR 212	Advanced Concepts of Pharmacology	2
NUR 216	Advanced Concepts of Medical-Surgical Nursing II	6
NUR 230	Leadership, Management & Trends	5
	Humanities or Social Behavior Elective from gtPathways	3

Total Credits	58
----------------------	-----------

Certificate**Nursing Assistant**

Students are eligible to apply to write the State certificate exam for Nurse Aide after completion of NUA 101, NUA 170 and NUA 171. Students completing NUA 171 in addition to NUA 101 and NUA 170 are eligible to receive a certificate from PPCC.

NUA 101	Nurse Aide Health Care Skills	4
NUA 170	Nurse Assistant Clinical Experience	1
NUA 171	Advanced Nurse Aide Clinical	1

Total Credit Hours	6
---------------------------	----------

Other courses for nursing assistants

NUA 105	Home Health Aide Theory	2
NUA 180	Home Health Aide Internship	3

Outdoor Leadership & Recreation Technology**Associate of Applied Science Degree**

Recommended basic skills standards are

- CCR 092
- MAT 050

Are you interested in exploring your passion, developing your outdoor skills, gaining leadership experience, or finding employment doing what you love? The world of careers is open to students pursuing an Outdoor Leadership and Recreation Technology degree. From guiding mountaineering trips in the Colorado Rockies to teaching environmental education courses to presenting wildlife programs at local nature centers, this program provides background education in a wide scope of industry career paths.

This two-year AAS degree includes a variety of certification classes, hands-on learning opportunities and a diverse elective list allowing students to enhance outdoor skills in their specific area of interest. Training emphases include outdoor leadership, field studies, group dynamics, risk management, web design, wilderness skills, and low-impact techniques for environmental stewardship. To enhance the learning process, students will utilize their education by applying skills developed within the program to an internship of their choosing.

Non-degree seeking students can complete one or more of the four certificate options, learning specialized outdoor skills in shorter period of time. Coursework completed in certificate options may be applied to the Outdoor Leadership and Recreation Technology degree.

Students may complete academic deficiencies concurrently with the beginning courses in the program. Students must arrange with advisors to remedy deficiencies in program requirements. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

BIO 148	Basic Ecology	4
	or	
ENV 101	Introduction to Environmental Science with Lab: SC1	(4)
CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
COM 115	Public Speaking	3
	or	
COM 214	Natural Resource Interpretation & Communication	(3)

ENG 131	Technical Writing I	3
or		
BUS 217	Business Communication & Report Writing	(3)
MAT 107	Career Math	3
		<hr/> 16

Other Course Requirements

HWE 129	Wilderness First Responder	4
NRE 236	Public Relations of Natural Resources	2
OUT 108	Wilderness Survival Skills	3
OUT 128	Outdoor Sports Conditioning	1
OUT 134	Wilderness Ethics	2
OUT 135	Risk Management for Outdoor Professionals	1
OUT 136	Leave No Trace Trainer Cert.	2
OUT 144	Backcountry Cooking	1
OUT 167	Basic Search & Rescue	3
OUT 168	Avalanche Awareness Level I	1
OUT 187	Cooperative Education Internship	3
OUT 211	Mountaineering Leadership	4
REC 100	Introduction to Recreation	2
REC 211	Outdoor Leadership	2
REC 212	Outdoor Recreation Programming	3
Elective	Choose ten (10) from electives list below	10
		<hr/> 44

Total Credit Hours

60

Approved Electives

Choose 10 credit hours from the list of approved electives below:

ACC 101	Fundamentals of Accounting	3
BIO 221	Botany with Lab: SC1	5
BUS 115	Introduction to Business	3
GEY 111	Physical Geology with Lab: SC1	4
HIS 225	Colorado History: HI1	3
MAN 216	Small Business Management	3
OUT 106	Map & Compass for the Outdoor Person	3
OUT 109	Winter Wilderness Survival Skills	2
OUT 110	Caving I	1
OUT 111	Caving II	1
OUT 112	Mountain Orientation	2
OUT 113	Desert Orientation	2
OUT 114	Canyon Orientation	2
OUT 116	River Orientation	2
OUT 119	Flyfishing I	1
OUT 120	Flyfishing II	1
OUT 126	Mountain Biking	1
OUT 129	Ice Climbing I	1
OUT 131	Rock Climbing I	2
OUT 132	Rock Climbing II	2
OUT 133	Technical Canyoneering	2
OUT 137	Kayaking	1
OUT 140	Swift Water Rescue Tech I	1
OUT 144	Backcountry Cooking	1
OUT 156	Survival Plants in the Summer I	2
OUT 157	Survival Plants in the Fall I	2
OUT 158	Survival Plants in the Spring I	2
OUT 159	Survival Plants: Rockies	1
OUT 160	Survival Plants: Southwest	1
OUT 161	Survival Plants in the Summer II	3
OUT 162	Survival Plants in the Fall II	3
OUT 163	Survival Plants in the Spring II	3
OUT 169	Avalanche Awareness Level II	2
OUT 201	Scuba Diving	1
OUT 202	Open Water Diver	1
OUT 216	Challenge Course Facilitation	2
OUT 218	River Orientation II	2

Certificates**Mountain Field Studies**

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/outdoor-leadership-recreation-technology/mountain-field-studies-gedt>.

HWE 129	Wilderness First Responder	4
OUT 108	Wilderness Survival Skills	3
OUT 112	Mountain Orientation	2
OUT 131	Rock Climbing I	2
OUT 132	Rock Climbing II	2
OUT 136	Leave No Trace Trainer Cert.	2
OUT 167	Basic Search & Rescue	3
OUT 211	Mountaineering Leadership	4
		<hr/> 22

Total Credit Hours

22

Outdoor Entrepreneur Professional Business

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/outdoor-leadership-recreation-technology/outdoor-entrepreneur-professional-business-gedt>.

ACC 101	Fundamentals of Accounting	3
BUS 115	Introduction to Business	3
CSC 105	Computer Literacy	3
MAN 216	Small Business Management	3
OUT 135	Risk Management for Outdoor Professionals	1
OUT 136	Leave No Trace Trainer Cert.	2
OUT 216	Challenge Course Facilitation	2
REC 212	Outdoor Recreation Programming	3
		<hr/> 20

Total Credit Hours

20

Scuba Diving Professional

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/outdoor-leadership-recreation-technology/scuba-diving-professional-gedt>.

HWE 129	Wilderness First Responder	4
OUT 201	Scuba Diving	1
OUT 202	Open Water Diver	1
OUT 203	Advanced Open Water Diver	1
OUT 204	Rescue Diver	2
OUT 205	Divemaster	3
OUT 206	Assistant Scuba Instructor	3
OUT 207	Open Water Scuba Instructor	3
		<hr/> 18

Total Credit Hours

18

Water Recreation Studies

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/outdoor-leadership-recreation-technology/water-recreation-studies-gedt>.

HWE 129	Wilderness First Responder	4
OUT 108	Wilderness Survival Skills	3
OUT 116	River Orientation	2
OUT 119	Flyfishing I	1
OUT 120	Flyfishing II	1
OUT 136	Leave No Trace Trainer Cert.	2
OUT 137	Kayaking	1
OUT 140	Swift Water Rescue Tech I	1
OUT 144	Backcountry Cooking	1
OUT 201	Scuba Diving	1
OUT 218	River Orientation II	2
		<hr/> 20

Total Credit Hours

20

Winter Field Studies

Gainful Employment Disclosure located at

<http://www.pccc.edu/app/catalog/ge/outdoor-leadership-recreation-technology/winter-field-studies-gedt>.

HWE 129	Wilderness First Responder	4
OUT 109	Winter Wilderness Survival Skills	2
OUT 129	Ice Climbing I	1
OUT 136	Leave No Trace Trainer Cert.	2
OUT 144	Backcountry Cooking	1
OUT 167	Basic Search & Rescue	3
OUT 168	Avalanche Awareness Level I	1
OUT 169	Avalanche Awareness Level II	2
Total Credit Hours		16

Paralegal/Legal Assistant

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

For more than three decades, the Paralegal program has been educating and training students to meet the needs of the local legal market, while providing students with opportunities beyond the law office environment. The program is an institutional member of the American Association for Paralegal Education, the National Association of Legal Assistants / Paralegals, and the National Federation of Paralegal Associations.

The objectives of the program are to (1) train students for employment as paralegals in a variety of legal settings; (2) provide opportunities for students who wish to upgrade existing job skills; and (3) provide coursework and transfer information to students who are interested in continuing their education.

Graduates will be qualified to perform basic legal research, draft various legal documents, conduct client and witness interviews, participate in basic fact-finding and investigation, and assist in trial preparation. They will also be knowledgeable about the rules of professional and ethical conduct.

Graduates are not authorized to practice law. The Paralegal program provides training perform substantive legal work under the supervision of a licensed attorney.

General Education Courses

CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
ENG 121	English Composition I: CO1	3
MAT 112	Financial Math	3
POS 111	American Government: SS1	3
PSY 100	Psychology of Workplace Relationships	3
		15

Other Course Requirements

MED 101	Introduction to Mediation	3
PAR 114	Computers & the Law	3
PAR 115	Introduction to Law	3
PAR 116	Torts	3
PAR 117	Family Law	3
PAR 118	Contracts	3
PAR 125	Property Law	3
PAR 127	Legal Ethics	3
PAR 201	Civil Litigation	3
PAR 202	Evidence	3
PAR 205	Criminal Law	3
PAR 206	Business Organizations	3
PAR 213	Legal Research & Writing I	3

PAR 280	Internship	3
PAR 287	Cooperative Education	3
Elective	Choose three(3) hours from the list below	3
		39
Total Credit Hours		60

Approved Electives

Choose three (3) credit hours from the electives below.

PAR 208	Probate & Estates	3
PAR 218	Bankruptcy Law	3

Certificate

Legal Assistant

Gainful Employment Disclosure located at

<http://www.pccc.edu/app/catalog/ge/paralegal-legal-assistant/paralegal-legal-assistant-gedt>.

MED 101	Introduction to Mediation	3
PAR 114	Computers & the Law	3
PAR 115	Introduction to Law	3
PAR 116	Torts	3
PAR 118	Contracts	3
PAR 125	Property Law	3
PAR 127	Legal Ethics	3
PAR 201	Civil Litigation	3
PAR 202	Evidence	3
PAR 205	Criminal Law	3
PAR 206	Business Organizations	3
PAR 213	Legal Research & Writing I	3
PAR 218	Bankruptcy Law	3
or		
PAR 208	Probate & Estates	(3)
PAR 280	Internship	3
PAR 287	Cooperative Education	3
Total Credit Hours		45

Legal Technician

Pending State Approval

This certificate program offering is only available to those students who possess (at the time of entry into the program) an Associate of Arts or Associate of Applied Science or HIGHER from a regionally accredited college or university. Students not possessing a degree must enroll in the Paralegal Associate of Applied Science degree program.

PAR 114	Computers & the Law	3
PAR 115	Introduction to Law	3
PAR 127	Legal Ethics	3
PAR 206	Business Organizations	3
PAR 213	Legal Research & Writing I	3
PAR 287	Cooperative Education	3
Total Credit Hours		18

Pharmacy Technician

Associate of Applied Science Degree

The Pharmacy Technician Program is accredited by the American Society of Health-System Pharmacists

Recommended basic skills standards are

- CCR 092
- MAT 050

Pharmacy Technicians assist and support licensed pharmacists in providing health care and medications to patients. The pharmacy technician has broad knowledge and training in pharmacy, however does not require the advanced college education required of a licensed pharmacist. Pharmacy technicians perform the practical duties, allowing the pharmacist to focus on patient education, pharmaceutical care and medication management.

Admission to the college does not assure admission to the pharmacy technician program. All students interested in the pharmacy technician program who do not have previous college courses must complete the PCC placement exams prior to being advised. Admission to the pharmacy technician program is accomplished through an application and selection process. Students can pick up a Pharmacy Technician Program Admission Application at the HENPS Division office at either the Centennial or Rampart Range Campus. NO APPLICATION WILL BE REVIEWED THAT IS NOT FULLY COMPLETED. Once completed, please submit to the Pharmacy Technician Program Coordinator and make an appointment to review necessary information at that time.

Students should complete specific program prerequisites and meet with the PHT Program Director prior to submitting the pharmacy technician application. Courses to be completed prior to application to the program are CSC 105, CCR 092 and MAT 050.

Upon provisional acceptance, the program director will notify the student of dates needed to obtain additional information.

- Criminal background check
- Drug Screen
- Health statement/immunizations

General Education Courses

CSC 105	Computer Literacy	3
ENG 121	English Composition I: CO1	3
MAT 103	Math for Clinical Calculations	3
PHI 112	Ethics: AH3	3
PSY 101	General Psychology I: SS3	3
		<hr/> 15

Other Course Requirements

CHE 101	Introduction to Chemistry I: SC1	5
COM 125	Interpersonal Communication	3
HPR 101	Customer Service in Healthcare	2
HPR 178	Medical Terminology	2
HWE 103	Community First Aid & CPR	1
PHT 111	Orientation to Pharmacy	3
PHT 112	Pharmacy Law	2
PHT 114	Computer Skills for Pharmacy Techs	1
PHT 115	Pharmacology I	3
PHT 116	Institutional Pharmacy	3
PHT 118	Pharmacology II	3
PHT 119	Community Pharmacy	3
PHT 170	Pharmacy Clinical: Institutional	4
PHT 171	Pharmacy Clinical: Community	4
PHT 235	Pharmaceutical Calculations & Compounding Techniques	4

STUDENTS MUST TAKE TWO OF THE FOLLOWING COURSES

MOT 125	Basic Medical Sciences I	3
MOT 133	Basic Medical Sciences II	3
MOT 135	Basic Medical Sciences III	3
MOT 150	Pharmacology for Medical Assistants	3
		<hr/> 49
Total Credit Hours		64

Certificate

Gainful Employment Disclosure located at

<http://www.pcc.edu/app/catalog/ge/pharmacy-technician/pharmacy-technician-ge-dt>.

COM 125	Interpersonal Communication	3
PHT 111	Orientation to Pharmacy	3
PHT 112	Pharmacy Law	2
PHT 114	Computer Skills for Pharmacy Techs	1
PHT 115	Pharmacology I	3
PHT 116	Institutional Pharmacy	3
PHT 118	Pharmacology II	3
PHT 119	Community Pharmacy	3
PHT 170	Pharmacy Clinical: Institutional	4
PHT 171	Pharmacy Clinical: Community	4
PHT 235	Pharmaceutical Calculations & Compounding Techniques	4
		<hr/> 33
Total Credit Hours		33

Pikes Peak Regional Law Enforcement Academy

Certificate

Recommended basic skills standards are

- CCR 092

The Pikes Peak Regional Law Enforcement Academy provides qualified individuals the opportunity to gain the skills to become a law enforcement officer. The Academy offers a basic recruit curriculum sanctioned by the Peace Officers Standards and Training (P.O.S.T.). During their enrollment, students take approximately 525 hours of coursework. At the end of the training program, P.O.S.T. administers the final certification exam. Those who successfully complete the exam are granted P.O.S.T. certification for three years. Colorado State Law requires that all individuals be P.O.S.T. certified prior to applying to a law enforcement agency.* Candidates will be subject to appropriate background checks.

Admission to the Pikes Peak Regional Law Enforcement Academy is accomplished through an application and selection process. Admission to the college does not guarantee admission into the Academy.

Additional requirements for admission to the Pikes Peak Regional Law Enforcement Academy may apply.

*Some agencies may require employees to attend their academy as a condition of employment.

LEA 101	Basic Police Academy I	6
LEA 102	Basic Police Academy II	12
LEA 103	Basic Law Enforcement Academy III	2
LEA 104	Basic Law Enforcement Academy IV	1
LEA 105	Basic Law	8
LEA 106	Arrest Control Techniques	3
LEA 107	Law Enforcement Driving	3
LEA 108	Firearms	3
PED 110	Fitness Center	1
		<hr/> 39
Total Credit Hours		39

Professional Photography

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

This program prepares the students for entry-level work in some of the following creative and exciting areas: portrait, commercial, outdoor, photojournalism, product, and fine-art photography. In addition students may enter support industries, which include: photo digital imaging and enhancement and photo lab technician. Students receive a blend of knowledge in technical camera skills, composition and creative thought, and computer software. Students will also choose from a variety of course electives.

Maximizing student success in the Professional Photography program is the department goal. The program faculty recommends that students develop the following desirable skill and knowledge foundations to enhance student success:

- Advanced college level study skills
- Working knowledge of algebraic principles and basic measurement
College-level reading, writing, comprehension, and study skills
- Working knowledge and application of college-level English
- Demonstrated time management skills
- Keyboarding, mouse and computer experience.

It is strongly recommended that students see an advisor for program planning. Students may complete basic skill deficiencies concurrently with the beginning courses in the program. Students must arrange with advisors to remedy deficiencies in program requirements. Please call (719) 502-3130 for advising.

Students can access detailed descriptions of each program course under the ART, PHO, and MGD prefixes lists.

General Education Courses:

ART 110	Art Appreciation: AH1	3
COM 115	Public Speaking	3
	or	
COM 125	Interpersonal Communication	(3)
CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
ENG 121	English Composition I: CO1	3
MAT 107	Career Math	3
		<hr/>
		15

Other Course Requirements

ART 113	History of Photography	3
ART 139	Digital Photography I	3
ART 144	Portrait Photography	3
ART 238	Film Photography II	3
MGD 111	Adobe Photoshop I	3
PHO 120	Fundamentals of Photography	3
	or	
ART 138	Film Photography I	(3)
PHO 226	Digital Workflow Management	3
PHO 232	Professional Portraiture	3
PHO 234	View Camera/Lighting Technique	3
PHO 236	Commercial Photography	3
PHO 260	Events & Wedding Photography	3
PHO 280	Internship	1
PHO 281	Internship	1
Elective	Choose fifteen (15) from electives list below	15
		<hr/>
		50

Total Credit Hours **65**

Approved Electives

ART 142	Landscape Photography	3
ART 207	Art History - 1900 to Present: AH1	3
ART 239	Digital Photography II	3
ART 242	Alternative Photo Processes	3
BUS 115	Introduction to Business	3
MGD 211	Adobe Photoshop II	3
MGD 259	Management & Production	3
MGD 268	Business for Creatives	3
PHO 105	Photo & Computer Orientation	3
PHO 235	Architectural Photography	3
PHO 258	Wildlife Photography	3
PHO 266	Pro Digital Workflow: Software	3

Certificates

Outdoor Photography

ART 142	Landscape Photography	3
PHO 120	Fundamentals of Photography	3
	or	
ART 138	Film Photography I	(3)
PHO 226	Digital Workflow Management	3
PHO 258	Wildlife Photography	3
		<hr/>
		12

Total Credit Hours

12

Photography Post Production & Output

Gainful Employment Disclosure located at

<http://www.pcc.edu/app/catalog/ge/professional-photography/photography-post-production-and-output-gedt>.

ART 139	Digital Photography I	3
ART 238	Film Photography II	3
ART 239	Digital Photography II	3
ART 242	Alternative Photo Processes	3
PHO 120	Fundamentals of Photography	3
	or	
ART 138	Film Photography I	(3)
PHO 226	Digital Workflow Management	3
PHO 266	Pro Digital Workflow: Software	3
		<hr/>
		21

Total Credit Hours

21

Portrait Photography

Gainful Employment Disclosure located at

<http://www.pcc.edu/app/catalog/ge/professional-photography/portrait-photography-gedt>.

ART 144	Portrait Photography	3
PHO 120	Fundamentals of Photography	3
	or	
ART 138	Film Photography I	(3)
PHO 226	Digital Workflow Management	3
PHO 232	Professional Portraiture	3
PHO 260	Events & Wedding Photography	3
PHO 266	Pro Digital Workflow: Software	3
		<hr/>
		18

Total Credit Hours

18

Radio & Television

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

The Radio & Television degree program prepares students to enter the television and radio broadcast industry. Students will learn to write, produce, and package programs for the broadcast and video production community. To enhance the learning process, students will also complete internships at local broadcast and/or video production facilities. Upon successful completion of the degree program, students may gain employment as announcers, producers, directors, writers, board operators, as well as in other non-broadcast occupations, in audio and video production.

Students who elect to complete a certificate program learn specialized broadcast skills in a shorter period of time. Coursework completed in the certificate program may be applied to one of the options in the Associate of Applied Science Degree program.

Students may complete deficiencies concurrently with the beginning courses in the program. Students must arrange with advisors to remedy deficiencies in program requirements.

General Education Courses

ANT 101	Cultural Anthropology: SS3	3
or		
SOC 101	Introduction to Sociology I: SS3	(3)
or		
PSY 101	General Psychology I: SS3	(3)
BUS 115	Introduction to Business	3
CIS 118	Introduction to PC Applications	3
or		
CSC 105	Computer Literacy	(3)
ENG 121	English Composition I: CO1	3
or		
COM 115	Public Speaking	(3)
MAT 107	Career Math	3
		<hr/> 15

Other Course Requirements

RTV 100	Introduction to Telecommunications	3
RTV 101	Radio Programming & Production I	3
RTV 102	Beginning Television Production	3
RTV 103	Writing for Television & Radio	3
or		
RTV 104	Corporate Scriptwriting	(3)
RTV 108	Principles of Audio	3
or		
RTV 210	Audio Mixing	(3)
RTV 120	News & Sports Writing & Reporting	3
RTV 180	Internship-KEPC Radio	4
or		
RTV 181	Internship - College ITV Studio	(4)
or		
RTV 182	Internship - Radio Station/Audio Production Company	(4)
or		
RTV 183	Internship - Television Station/Video Production Company	(4)
RTV 208	Basic Video Production	3
RTV 211	Radio Programming & Production II	3
or		
RTV 212	Advanced Television Production	(3)
RTV 260	Broadcast Management	3

RTV 280	Internship - TV Studio/Video Production II	3
or		
RTV 281	Internship in the News - KEPC Radio	(3)
or		
RTV 282	Internship - KEPC Radio II	(3)
or		
RTV 283	Internship - Radio Station/Audio Production II	(3)
or		
RTV 284	Internship in Telecommunications	(3)
Elective	Choose twelve (12) credit hours from the list below	12

 46

Total Credit Hours

61

Approved Electives

MGD 102	Introduction to Multimedia	3
MGD 111	Adobe Photoshop I	3
MGD 112	Adobe Illustrator I	3
MGD 141	Web Design I	3
MGD 164	Digital Video Editing I	3
MGD 165	After Effects I	3
MGD 211	Adobe Photoshop II	3
MGD 212	Adobe Illustrator II	3
PHO 101	Professional Photography I	3
PHO 105	Photo & Computer Orientation	2
PHO 120	Fundamentals of Photography	3
RTV 103	Writing for TV & Radio	3
RTV 104	Corporate Scriptwriting	3
RTV 108	Principles of Audio	3
RTV 180	Internship-KEPC Radio	4
RTV 181	Internship-College ITV Studio	4
RTV 182	Internship-Radio Station/Audio Production	4
RTV 183	Internship-TV Station/Video Production Co.	4
RTV 210	Audio Mixing	3
RTV 211	Radio Programming & Production II	3
RTV 218	Advanced Video Production	3
RTV 280	Internship-TV Station/Video Production II	3
RTV 281	Internship in News-KEPC Radio	3
RTV 282	Internship-KEPC II	3
RTV 283	Internship-Radio Station/Audio Production II	3
RTV 284	Internship in Telecommunications	3
THE 111	Acting I	3
THE 140	Stage Dialects	1
THE 204	Voice and Articulation I	2
THE 216	Theatre Lighting and Design	3

Certificates

Advanced Radio Production and Operations

Gainful Employment Disclosure located at <http://www.ppcc.edu/app/catalog/ge/radio-tv-telecommunications-production/advanced-radio-operations-gedt>.

RTV 101	Radio Programming & Production I	3
RTV 103	Writing for TV & Radio	3
or		
RTV 104	Corporate Scriptwriting	(3)
RTV 108	Principles of Audio	3
RTV 120	News & Sports Writing & Production	3
RTV 180	Internship-KEPC Radio	4
RTV 182	Internship-Radio Station/Audio Production	4
RTV 210	Audio Mixing	3
RTV 211	Radio Programming & Production II	3
RTV 260	Broadcast Management	3
RTV 283	Internship-Radio Sta/Audio Production II	3

Total Credit Hours

 32

Advanced Television and Video Production

Gainful Employment Disclosure located at

<http://www.pgcc.edu/app/catalog/ge/radio-tv-telecommunications-production/advanced-tv-production-and-video-editing-gedt>.

RTV 102	TV Production	3
RTV 103	Writing for TV & Radio	3
RTV 104	Corporate Scriptwriting	3
RTV 108	Principles of Audio	3
RTV 181	Internship-College/Interactive TV Studio	4
RTV 183	Internship-TV Station/Video Production Co.	4
RTV 208	Basic Video Production	3
RTV 212	Advanced Television Production	3
RTV 218	Advanced Video Production	3
RTV 260	Broadcast Management	3
Total Credit Hours		32

Basic Radio Production

Gainful Employment Disclosure located at

<http://www.pgcc.edu/app/catalog/ge/radio-tv-telecommunications-production/radio-gedt>.

RTV 101	Radio Programming & Production I	3
RTV 103	Writing for TV & Radio	3
	or	
RTV 104	Corporate Scriptwriting	(3)
RTV 108	Principles of Audio	3
RTV 180	Internship-KEPC Radio	4
RTV 210	Audio Mixing	3
RTV 211	Radio Programming & Production II	3
Total Credit Hours		19

Basic Television Production

Gainful Employment Disclosure located at

<http://www.pgcc.edu/app/catalog/ge/radio-tv-telecommunications-production/television-gedt>.

RTV 102	Television Production	3
RTV 103	Writing for TV & Radio	3
	or	
RTV 104	Corporate Scriptwriting	(3)
RTV 181	Internship-College/Interactive TV Studio	4
RTV 208	Basic Video Production	3
RTV 212	Advanced Television Production	3
RTV 218	Advanced Video Production	3
Total Credit Hours		19

Radiology: University of Colorado Health/Memorial Health System School of Radiologic Technology / PPCC Collaborative Program

Associate of Applied Science Degree

Pending State Approval

Recommended basic skills standards are

- CCR 092
- MAT 050

This collaborative program offers the student the opportunity to earn an AAS Degree in Radiologic Technology.

The student will fulfill the PPCC residency requirements ideally with the pre-requisite courses. They will apply to the Memorial program. There is no guarantee of admission. Upon completion of the program, the Memorial program coursework will be

transferred back to PPCC for 57 hours. The student will then be awarded the degree.

General Education Courses

BIO 201	Human Anatomy & Physiology I: SC1	4
BIO 202	Human Anatomy & Physiology II: SC1	4
ENG 121	English Composition I: CO1	3
MAT 121	College Algebra: MA1	4
PSY 101	General Psychology I: SS3	3
		18

Other Course Requirements

RTE 101	Introduction to Radiography	2
RTE 111	Radiographic Patient Care	2
RTE 121	Radiologic Procedures I	3
RTE 122	Radiologic Procedures II	3
RTE 141	Radiographic Pathology and Image Evaluation II	3
RTE 142	Radiographic Equipment/Imaging I	3
RTE 181	Radiographic Internship I	5
RTE 182	Radiographic Internship II	5
RTE 183	Radiographic Internship III	7
RTE 221	Advanced Medical Imaging	3
RTE 231	Radiation Biology/Protection	2
RTE 281	Radiographic Internship IV	8
RTE 282	Radiographic Clinical Internship V	8
RTE 289	Capstone	3
Total Credit Hours		75

Sign Language Interpreter Preparation

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

This program prepares students for entry-level as a pre-certified interpreter/transliterater. Sign language interpreters bridge the communication gap between deaf and hearing consumers effectively, accurately, and impartially while adhering to high ethical standards.

Students must submit a Letter of Intent to the Interpreter Preparation Program. In order to be accepted into the program, students must demonstrate proficiency in American Sign Language by:

1. Passing the proficiency test at 80%, or
2. Receiving a grade of "B" or above in both ASL 121 and ASL 122.

In addition, program requirements include demonstrated mastery of program skills. Therefore, students must receive a grade of "B" or better in all ASL and IPP courses and at least a "C" in all other general education coursework.

To progress to the Interpreting Internship, students must:

1. satisfy all program requirements with a grade of "B" or better,
2. have completed all general education courses and
3. have an overall G.P.A of a 3.0 or higher

As of July 2012, the Registry of Interpreters for the Deaf (RID) requires a Bachelor's degree for national certification. PPCC has partnered with Regis University and Sienna Heights for full transfer of the AAS degree for a Bachelor of Applied Science degree. This BAS degree satisfies the RID educational standards for certification.

Contact the Interpreter Preparation Office at 719-502-3500 for more information.

Program prerequisite: CCR 092, MAT 050 or placement scores of ENG 121.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

ANT 101	Cultural Anthropology: SS3	3
CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
COM 115	Public Speaking	3
ENG 121	English Composition I: CO1	3
MAT 107	Career Math	3
	or	
MAT 120	Mathematics for the Liberal Arts: MA1 (or higher)	(3)
		<hr/>
		15

Other Course Requirements

ASL 123	American Sign Language III	5
ASL 215	ASL Literature	3
ASL 221	American Sign Language IV	3
ASL 222	American Sign Language V	3
IPP 121	Aspects of Interpreting I	3
IPP 122	Aspects of Interpreting II	3
IPP 125	Oral Transliterating	2
IPP 131	Text Analysis	3
IPP 132	Interpretation Analysis	3
IPP 145	Deaf People in Society	2
IPP 147	Survey of Deaf Culture	3
IPP 205	Educational Interpreting	4
IPP 207	Specialized & Technical Communication	2
IPP 225	English to ASL Interpreting	3
IPP 227	ASL to English Interpreting	3
IPP 229	Transliterating	3
IPP 235	Advanced Interpreting	4
IPP 279	Interpreter Seminar	3
IPP 281	Internship	5
		<hr/>
Total Credit Hours		75

Certificate

Basic ASL Communication Skills

Gainful Employment Disclosure located at

<http://www.pgcc.edu/app/catalog/ge/sign-language-interpreter-preparation/basic-asl-communication-skills-gedt>.

The ASL certificate is for students who want to broaden their horizons by learning a new language and who plan to use their skills for casual communication as opposed to professional interpreting. ASL is the fourth most commonly used language in the United States and can be a valuable asset in any field that is customer or consumer related. In today's competitive market, every additional skill on your resume places you one step closer to your dream job. This certificate can be a starting point for your new career or can enhance any established degree or profession.

ASL 123	American Sign Language III	5
ASL 221	American Sign Language IV	3
IPP 121	Aspects of Interpreting I	3
IPP 145	Deaf People in Society	2
IPP 147	Survey of Deaf Culture	3
		<hr/>
Total Credit Hours		16

Social Services Technician

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 050

This program prepares students to enter the social services career field at the paraprofessional level. The training includes individual casework skills, group skills, case management skills, and family group work skills. Students participate in supervised work experience in various social agencies within the community which often serves as an avenue to obtaining employment. Elective courses are offered to help students learn more advanced skills.

Social Services Technician faculty recommends that in order to maximize the chances of success, students possess foundational skills in the following areas:

- Effective study skills
- Basic math skills
- Reading and comprehension skills
- Working knowledge and application of English skills
- Time management and problem solving skills

Students who want individualized program planning suggestions are encouraged to consult program faculty. Please call 719-502-3180 to schedule an appointment.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

NOTE: To be employed in the social work field it is expected that you will be able to pass background checks. This will include fingerprinting for the Colorado Bureau of Investigation and a Central Registry Inquiry.

General Education Courses

CSC 105	Computer Literacy	3
ENG 121	English Composition I: CO1	3
	and	
ENG 122	English Composition II: CO2	3
	or	
COM 225	Introduction to Organizational Communication	(3)
	and	
ENG 131	Technical Writing I	(3)
MAT 107	Career Math	3
PSY 101	General Psychology I: SS3	3
SOC 101	Introduction to Sociology I: SS3	3
SOC 102	Introduction to Sociology II: SS3	3
		<hr/>
		21

Other Course Requirements

SWK 100	Introduction to Social Work	3
SWK 105	Application of Group Counseling	3
SWK 106	Introduction to Alcohol & Drugs	3
SWK 180	Internship I	6
SWK 181	Internship II	6
SWK 201	Human Behavior in the Social Environment I	3
SWK 202	Human Behavior in the Social Environment II	3
SWK 205	Social Welfare in the U.S.	3
SWK 208	Social Work Case Management	3
SWK 222	Introduction to Social Work Practice	3
SWK 280	Internship III	6
		<hr/>
		42

Total Credit Hours

63

Certificates

Case Management Open Field Placement – Internship

SWK 180	Internship I	6
SWK 205	Social Welfare in the U.S.	3
SWK 208	Social Work Case Management	3
SWK 222	Introduction to Social Work Practice	3

Total Credit Hours 15

Child Welfare

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/social-services-technician/child-welfare-gedt>.

SWK 180	Internship I	6
SWK 205	Social Welfare in the U.S.	3
SWK 208	Social Work Case Management	3
SWK 222	Introduction to Social Work Practice	3
PSY 247	Child Abuse & Neglect	3

Total Credit Hours 18

Gerontological

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/social-services-technician/gerontological-gedt>.

SOC 201	Introduction to Gerontology	3
SWK 180	Internship I	6
SWK 205	Social Welfare in the U.S.	3
SWK 208	Social Work Case Management	3
SWK 222	Introduction to Social Work Practice	3

Total Credit Hours 18

Social Services

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/social-services-technician/social-services-gedt>.

SOC 101	Introduction to Sociology I: SS3	3
SWK 100	Introduction to Social Work	3
SWK 180	Internship I	6
SWK 201	Human Behavior in the Social Environment I	3
SWK 205	Social Welfare in the U.S.	3
SWK 208	Social Work Case Management	3
SWK 222	Introduction to Social Work Practice	3
Elective		3

Total Credit Hours 27

Students must consult with advisors for selection of elective courses.

Substance Abuse

Gainful Employment Disclosure located at <http://www.pgcc.edu/app/catalog/ge/social-services-technician/substance-abuse-gedt>.

SWK 106	Introduction to Alcohol & Drugs	3
SWK 180	Internship I	6
SWK 205	Social Welfare in the U.S.	3
SWK 208	Social Work Case Management	3
SWK 222	Introduction to Social Work Practice	3

Total Credit Hours 18

Water Quality Management

Associate of Applied Science Degree

Recommended basic skills standards are

- CCR 092
- MAT 055

The Water Quality Management Program is designed to prepare students for employment at the technician level in water and wastewater treatment operations. The curriculum includes science and math foundations, water and wastewater treatment techniques, field experiences and group projects. Local career opportunities in this ever growing field will be available to the graduates of this program.

General Education Courses

BIO 111	General College Biology I w/Lab: SC1	5
BIO 204	Microbiology: SC1	4
CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
COM 115	Public Speaking	3
	or	
COM 225	Organizational Communication	(3)
ENG 121	English Composition I: CO1	3
	or	
ENG 131	Technical Writing I	(3)
MAT 121	College Algebra: MA1	4
		<u>22</u>

Other Course Requirements

WQM 100	Introduction to Water Quality	3
WQM 105	Specific Calculations for Water Quality	4
WQM 106	Mechanical-Physical Treatment	3
WQM 109	Water Distribution	3
WQM 115	Water Sources & Supplies	3
WQM 116	Conventional Surface Water Treatment	3
WQM 118	Wastewater Collection Systems	3
WQM 119	Basic Water Quality Analysis	4
WQM 122	Basic Electricity for Water Quality Systems	4
WQM 126	Safety & Security Systems	3
WQM 127	Utility Management	3
WQM 200	Hydraulics for Water Quality Management	4
WQM 212	Drinking Water Regulations	4
		<u>44</u>

Total Credit Hours 66

Certificates

Small Systems

WQM 105	Specific Calculations for Water Quality Management	4
WQM 126	Safety & Security Systems	3
WQM 127	Utility Management	3
WQM 202	Small Water System Operations & Maintenance	3
WQM 203	Small Wastewater Sys. Operations & Maintenance	3
		<u>3</u>

Total Credit Hours 16

Wastewater Collection & Treatment**Gainful Employment Disclosure located at**

<http://www.ppcc.edu/app/catalog/ge/water-and-wastewater-technology/waste-water-treatment-gedt>.

WQM 105	Specific Calculations for Water Quality Management	4
WQM 106	Mechanical-Physical Treatment	3
WQM 118	Wastewater Collection System	3
WQM 126	Safety & Security Systems	3
WQM 127	Utility Management	3

Total Credit Hours **16**

Water Distribution & Treatment**Gainful Employment Disclosure located at**

<http://www.ppcc.edu/app/catalog/ge/water-and-wastewater-technology/water-treatment-gedt>.

WQM 105	Specific Calculations for Water Quality Management	4
WQM 109	Water Distribution	3
WQM 116	Conventional Surface Water Treatment	3
WQM 126	Safety & Security Systems	3
WQM 127	Utility Management	3

Total Credit Hours **16**

Welding**Associate of Applied Science Degree**

Recommended basic skills standards are

- AAA 109
- CCR 092
- MAT 050

Training in welding is offered to those who wish to learn basic welding skills or to upgrade their knowledge in welding and fabrication. All welding classes are offered on a self-paced basis. Classes use course outlines, books, videos, and instructor-assisted instruction with practical hands-on training. Various types and thicknesses of material are welded in all positions with different welding processes. Courses in ornamental ironwork are also available. Three certificate options are available in pipe welding, structural welding, and combination pipe, structural, and advanced processes. The degree program provides students with additional competencies in welding which will enhance their upward mobility.

Students are required to purchase personal protective equipment, tools and text books. Students will receive a list of necessary equipment and books during orientation the first day of the course in which they enroll.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

COM 225	Introduction to Organizational Communication	3
CSC 105	Computer Literacy	3
MAT 107	Career Math	3
General Education Electives from approved list can be found on page 80		6

15

Other Course Requirements

WEL 100	Safety for Welders	1
WEL 106	Blueprint Reading for Welders & Fitters	4
WEL 113	Oxyfuel & Plasma Cutting	2
WEL 114	Oxyacetylene Welding	2

WEL 121	Structural Welding I	3
WEL 122	Structural Welding II	3
WEL 124	Introduction to Gas Tungsten Arc Welding	4
WEL 125	Introduction to Gas Metal Arc Welding	4
WEL 224	Advanced Gas Tungsten Arc Welding	4
WEL 225	Advanced Gas Metal Arc Welding	4
Skill electives from list below		26

57

Total Credit Hours **72**

Approved skill electives

MAC 101	Introduction to Machine Shop	3
MAC 110	Introduction to Engine Lathe	3
MAC 120	Introduction to Milling Machine	3
MAC 240	CAD/CAM 2D	3
MAC 241	CAD/CAM 2D Lab	3
MAC 252	Practical Metallurgy	3
WEL 180	Internship	4
WEL 200	Advanced CAD/CAM Cutting Process	4
WEL 205	Introduction to Ornamental Iron	4
WEL 230	Pipe Welding I	4
WEL 231	Pipe Welding II	4
WEL 250	Layout & Fabrication	4
WEL 280	Internship	4

Certificates**Entry Level Welding****Gainful Employment Disclosure located at**

<http://www.ppcc.edu/app/catalog/ge/welding-technology/entry-level-welding-gedt>.

MAT 107	Career Math	3
WEL 100	Safety for Welders	1
WEL 106	Blueprint Reading for Welders & Fitters	4
WEL 113	Oxyfuel & Plasma Cutting	2
WEL 114	Oxyacetylene Welding	2
WEL 121	Structural Welding I	3
WEL 122	Structural Welding II	3
WEL 124	Introduction to Gas Tungsten Arc Welding	4
WEL 125	Introduction to Gas Metal Arc Welding	4

Total Credit Hours **26**

Gas Metal Arc Welding (GMAW)

WEL 125	Introduction to Gas Metal Arc Welding	4
WEL 225	Advanced Gas Metal Arc Welding	4

Total Credit Hours **8**

Gas Tungsten Arc Welding (GTAW)

WEL 124	Introduction to Gas Tungsten Arc Welding	4
WEL 224	Advanced Gas Tungsten Arc Welding	4

Total Credit Hours **8**

Pipe Welding**Gainful Employment Disclosure located at**

<http://www.ppcc.edu/app/catalog/ge/welding-technology/pipe-welding-gedt>.

*Students must complete Entry Level Certificate prior to taking

Pipe courses		
*Entry Level Certificate		26
WEL 230	Pipe Welding I	4
WEL 231	Pipe Welding II	4

Total Credit Hours **34**

Shielded Metal Arc Welding (SMAW)

WEL 121	Structural Welding I	3
WEL 122	Structural Welding II	3

Total Credit Hours **6**

Zoo Keeping Technology

Associate of Applied Science Degree

Pending State Approval

Recommended basic skills standards are

- CCR 092
- MAT 050

This program is designed to prepare students to be zoo keeping technicians and animal care professionals. Classes include training in science foundations, animal husbandry, career development, horticulture, exhibit design and veterinary zoo keeping giving the students the background for a career in the animal care professions.

New students must satisfactorily pass a Criminal Background Investigation (CBI) prior to first internship. Failure to pass may jeopardize participation in any internship. CBI tests are at student expense.

It is the policy of the PPCC Zoo Keeping Technology program to provide reasonable accommodation to qualified students with disabilities. Whether or not a requested accommodation is reasonable will be determined on an individual basis. Determining what is a reasonable accommodation is an interactive process which the student should initiate with OASIS.

Students should realize that a degree from PPCC will not guarantee a position with a zoo. Many zoos have requirements other than education for employment. Requirements for a zoo keeping job may include the following:

- Ability to remain on feet for long periods of time.
- Working in a variety of weather conditions, weekends and holidays.
- Work in small, confined spaces.
- Perform a variety of physical tasks that include climbing, bending, stooping, kneeling, twisting, reaching, and crawling.
- Physical strength, including the ability to frequently move fifty (50) pounds.
- Ability to wear Personal Protective Equipment that may include rubber/latex gloves, steel-toed boots/shoes, face shields, eye goggles, and dust masks.
- No allergy related to plants or animals that would impede work.
- No impairment of sight, smell, hearing, touch balance, and ability of movement that might interfere with ability to work.

Students should consult with a program faculty advisor prior to enrolling in this program.

Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

BIO 150	Animal Biology	4
CIS 118	Introduction to PC Applications	3
	or	
CSC 105	Computer Literacy	(3)
COM 115	Public Speaking	3
	or	
COM 214	Natural Resource Interpretation Communication	(3)
ENG 131	Technical Writing I	3
MAT 103	Math for Clinical Calculations	3
		<hr/>
		16

Additional Course Requirements

ZOO 101	Career Development for Zoo Keeping	2
ZOO 104	Animal Training	2
ZOO 105	Reptile & Amphibian Husbandry	4
ZOO 115	Bird Husbandry	4
ZOO 117	Animal Conservation in Captivity	3
ZOO 125	Mammal Husbandry	4
ZOO 135	Fish & Aquatic Invertebrate Husbandry	4
ZOO 180	Zoo Keeping Internship I	5
ZOO 181	Zoo Keeping Internship II	5
ZOO 206	Exhibit & Horticulture Design for Zoo Exhibits	4
ZOO 207	Animal Behavior	3
ZOO 215	Veterinary Zoo Keeping	4
ZOO 280	Zoo Keeping Internship III	5
		<hr/>
		49

Total Credit Hours **65**

Certificates

Zoo Science

ZOO 101	Career Development for Zoo Keeping	2
ZOO 104	Animal Training	2
ZOO 105	Reptile & Amphibian Husbandry	4
ZOO 115	Bird Husbandry	4
ZOO 117	Animal Conservation in Captivity	3
ZOO 125	Mammal Husbandry	4
ZOO 135	Fish & Aquatic Invertebrate Husbandry	4
ZOO 206	Exhibit & Horticulture Design for Zoo Exhibits	4
ZOO 207	Animal Behavior	3
ZOO 215	Veterinary Zoo Keeping	4
Elective	Choose six (6) hours from the list below	6
		<hr/>
		40

Approved Electives

BIO 148	Basic Ecology	4
HWE 100	Human Nutrition	3
HWE 103	Community First Aid & CPR	1
HWE 110	Fitness Conditioning & Wellness	2
PSY 100	Psychology of Workplace Relationships	3
ZOO 110	Wild Cats Conservation & Management	2
ZOO 111	Ungulates: The Hoofed Mammals	2
ZOO 112	Elephants: An Introduction	1
ZOO 120	Bats: An Introduction	2
ZOO 122	Primateology: Captive Apes	2
ZOO 200	Advanced Exhibitory Techniques	2
ZOO 212	Elephant Management	2

Mammal Husbandry

ZOO 117	Animal Conservation in Captivity	3
ZOO 125	Mammal Husbandry	4
Elective	Choose six (6) hours from the list below	6
		<hr/>
		13

Total Credit Hours

Approved Electives

ZOO 102	Primates	3
ZOO 110	Wild Cats Conservation & Management	2
ZOO 111	Ungulates: The Hoofed Mammals	2
ZOO 112	Elephants: An Introduction	1
ZOO 120	Bats: An Introduction	2
ZOO 122	Primateology: Captive Apes	2
ZOO 212	Elephant Management	2

Other Programs and Courses of Study

Para-Professional Education

Associate of Arts or Science Course of Study/Associate of General Studies Course of Study

Recommended basic skills standards are

- CCR 092

Para-professional educators may complete an Associate of Arts, Associate or Science, or Associate of General Studies degree program; or pass a school district designated test. Para-Professional educators seeking degrees at PPCC may submit transcripts of completed COTOP Academy course clusters to receive credit for corresponding community college courses. For additional information, please call Wayne Artis at 719-502-3002.

Pre-Engineering

Associate of Science Transfer Track

Recommended basic skills standards are

- CCR 092
- MAT 121

The transfer track offers students the requisite fundamental engineering sciences background and the strong mathematical foundation necessary for pursuing upper-level classes in engineering. Because of the varied differences of freshman and sophomore level courses needed for specific engineering programs, it is strongly recommended that students plan a program of study with pre-engineering advisors prior to or during the first term of study. The transfer track, while not necessarily resulting in an AS degree, does offer the equivalent of the course work of the first two years of college engineering studies in preparation for transfer to an engineering school. For additional information, please call 719-502-3600.

Secondary Education Teacher Preparation

Associate of Arts or Science Course of Study

Secondary Education Teacher Preparation allows students to complete a transferable associate of arts or science degree preparing them for transfer to a four-year college or university in Colorado where they can complete their Bachelor's degree and teaching credential in two additional years. Students identify a major and transfer institution prior to enrolling for courses and must meet with their faculty advisor before registering for classes to insure transferability of courses to their chosen institution/major. Areas of Certification in Colorado are Art, Communication, Drama, English Language Arts, Foreign Language, Health, Mathematics, Music, Physical Education, Science, and Social Studies. For additional information, please call Wayne Artis at 719-502-3002.

COURSE DESCRIPTIONS

Course Numbering System

Each course has a letter and a numeric code. The letters are an abbreviation for the subject. For instance, MAT indicates a mathematics course and ENG an English course.

Courses numbered 100-199 are usually considered freshman level. Sophomore courses are generally numbered between 200 and 299.

Course numbers and descriptions are subject to change.

Developmental Courses

Developmental courses are numbered from 001 to 099. These are courses that teach basic skills often required to complete other college work. Students may be referred to these courses if their placement test scores do not meet college minimum standards. Though developmental courses may be required to enter a program or enroll in other courses, they do not count toward a degree or certificate.

Independent Study

Independent study classes allow students to develop specialized course goals working independently with an instructor. In this type of class, students meet in person with an instructor and agree to an appropriate course of study to conduct an independent investigation of a problem. One credit hour is awarded for each two hours of contracted special study per week per semester. Enrollment requires approval of the appropriate division director and the chief instructional officer.

Off Campus Courses

Courses that originate at PCC campuses and include travel to off-campus locations are considered by the institution to be resident courses.

Selected Topics

These courses are available in all disciplines under the 175, 177, 176, 275, 276, 277 series. Developmental courses are 075, 076, 077. These courses meet temporary or special requirements for offerings not in the curriculum and explore the viability of adding the proposed course to the curriculum.

State-Guaranteed Curriculum

The State – Guaranteed Curriculum is a package of courses which will transfer to all public colleges and universities in Colorado (except School of Mines). The core package is part of the associate of arts and associate of science degrees. When transferred as a package, core courses will satisfy the lower division general education requirements for Bachelor of Arts and Bachelor of Sciences degrees provided they are completed with a grade of C or better.

Work Experience Courses

These courses are designed to improve employability and to expand the laboratory or shop capabilities of the institution through the use of community-based facilities. All work (field) experience courses include the following:

- an instructor credentialed in the program area to supervise the off-campus instruction
- activities designed by the instructor
- student attendance at a minimum of one class session per week with the instructor

- a training plan which includes assignments required for completion of the course
- grading according to the established college grading policy
- the same types of assignments and preparation as for on-campus courses.

Accounting Courses

ACC 101 Fundamentals of Accounting

3 Credit Hours • 45 Contact Hours (Lecture)

Presents the basic elements and concepts of accounting, with emphasis on the procedures used for maintaining journals, ledgers, and other related records, and for the completion of end-of-period reports for small service and merchandising businesses.

ACC 115 Payroll Accounting

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ACC 101 or ACC 121 or concurrent enrollment

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

ACC 121 Accounting Principles I

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 055

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

ACC 122 Accounting Principles II

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: ACC 121

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

ACC 125 Computerized Accounting

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ACC 101 or ACC 121 or concurrent enrollment

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

ACC 131 Income Tax

3 Credit Hours • 45 Contact Hours (Lecture)

Note: It is strongly recommended to take ACC 121 before ACC 131

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

ACC 132 Tax Help Colorado

2 Credit Hours • 30 Contact Hours (Lecture)

Note: ACC 101 or ACC 121 is strongly recommended

This course prepares the students for preparation of federal and state income tax returns for individuals. Emphasis is placed on form preparation with the use of tax software.

ACC 133 Tax Help Colorado Practicum

1 Credit Hour • 30 Contact Hours (Practicum)

Prerequisite: ACC 132

This course allows students to prepare actual federal and state income tax returns for individuals in the real time environment.

ACC 135 Spreadsheet Applications for Accounting

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ACC 122, CIS 155

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

ACC 211 Intermediate Accounting I

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: ACC 122, successful completion of or concurrent enrollment in ACC 135 or CIS 155

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

ACC 212 Intermediate Accounting II

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: ACC 211

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

ACC 215 Accounting Information Systems & E-Business

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ACC 122

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

ACC 216 Governmental & Not-for-Profit Accounting

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ACC 122

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

ACC 226 Cost Accounting

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ACC 122 (Grade of C or higher)

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

ACC 227 Cost Accounting II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ACC 226

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

ACC 287 Cooperative Education

3 Credit Hours • 135 Contact Hours (Work Experience)

Note: Must have faculty consent to enroll

For Accounting majors only

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

Advancing Academic Achievement Courses

AAA 050 Semester Survival

2 Credit Hours • 30 Contact Hours (Lecture)

Emphasizes basic study skills in order to bolster their chances of completing the current semester successfully.

AAA 090 Academic Achievement Strategies

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

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

AAA 101 The Student Experience

1 Credit Hour • 15 Contact Hours (Lecture)

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

AAA 109 Advanced Academic Achievement

3 Credit Hours • 45 Contact Hours (Lecture)

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

Agriculture Crops & Soils Course

AGY 240 Introductory Soil Science: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

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

American Sign Language Courses

ASL 121 American Sign Language I

5 Credit Hours • 75 Contact Hours (Lecture)

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

ASL 122 American Sign Language II

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: ASL 121 (Grade of B or higher) or passing the ASL 121 proficiency exam

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

ASL 123 American Sign Language III

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: ASL 122 (Grade of B or higher) or passing the ASL 122 proficiency exam

Provides the student an opportunity to develop a stronger grasp of American Sign Language (ASL), as well as the cultural features of the language. ASL vocabulary is also increased. The direct experience method is used to further enhance the learning process. This course is a continuation of ASL 122 with more emphasis on expressive skills in signing.

ASL 125 Fingerspelling

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ASL 122

Provides the student an opportunity to develop expressive and receptive fingerspelling through various class activities.

ASL 135 Conversational ASL

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: ASL 123 (Grade of C or higher)

Provides the student an extended opportunity to develop a strong grasp of American Sign Language (ASL) as well as the cultural features of the language. It helps the student maintain sign language skill. This course is designed for students who have not met the minimum requirements to continue with ASL 221.

ASL 215 ASL Literature

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ASL 221 (Grade of B or higher)

Provides the student with an opportunity to recognize the impact of Deaf Culture on emerging ASL Literature. Covers non-fiction, fiction, poetry, and drama depicted in readings and videotapes related to everyday lives of Deaf people. Develops insight and appreciation of Deaf literature and its implications for Deaf education.

ASL 221 American Sign Language IV

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ASL 123 (Grade of B or higher)

Continues from ASL 123 to provide further study of American Sign Language (ASL) and its grammar, syntax, and cultural features. Helps students develop competency and fluency in the language. Variations in ASL are addressed.

ASL 222 American Sign Language V

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ASL 221 (Grade of B or higher)

Continues ASL 221 with focus on assimilating previously acquired skills and knowledge and increases proficiency in understanding and using American Sign Language (ASL). Addresses debates in ASL.

Anthropology Courses**ANT 101 Cultural Anthropology: SS3**

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

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

ANT 103 Archaeology Laboratory: SS3

1 Credit Hours • 30 Contact Hours (Lab)

Prerequisite: CCR 092

Studies analytical methods in archeological research including those employed in the field and in the laboratory. This course utilizes practical exercises to illustrate theoretical principles of archeology, including methods of archeological survey, excavation, artifact analysis, collection strategies, mapping strategies, and field interpretation.

ANT 107 Introduction to Archaeology: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

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

ANT 111 Biological Anthropology with Lab: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: CCR 092

Focuses on the study of the human species and related organisms, and examines principles of genetics, evolution, anatomy, classification, and ecology, including a survey of human variation and adaptation, living primate biology and behavior, and primate and human fossil evolutionary history.

ANT 121 Cultures of the Southwest

3 Credit Hours • 45 Contact Hours (Lecture)

Includes the major prehistoric cultures (Paleo-Indian, Desert Culture, Anasazi, Hohokam, Mogolion) and ethnographic views of the historic cultures (Pueblos, Navajo, Apache, Pima, Papago, Spanish-American, and Anglo-American). The purpose of the study is to trace the stages through which these cultures have passed in order to evaluate environmental influences on human activities and to perceive human influences on the environment.

ANT 201 Introduction to Forensic Anthropology: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Studies the basic principles of forensic anthropology, an applied field within the discipline of physical anthropology. Includes the study of the human skeleton, practical application of physical anthropology and archaeology, and judicial procedure, as they relate to the identification of human remains within a medico-legal context.

ANT 211 Cultural Resource Management

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces the cultural resources management requirements of the federal government. Explores the history, purposes, and goals of historic preservation through an examination of cultural, archaeological, and historical resources of the American Southwest.

ANT 215 Indians of North America: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

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

ANT 218 Archaeology of the Bible

3 Credit Hours • 45 Contact Hours (Lecture)

Examining the early civilizations and major cities described in the Bible, this course is designed to use the methods and critical examination of archaeology. Students will explore the cultural history of the Near East from the Neolithic period to the end of the Iron Age. Students will focus on the Old Testament starting with the domestication of plants and animals in the Neolithic, followed

by the development of villages, and then by cities in Israel, Babylon and Egypt.

ANT 221 Exploring Other Cultures I

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Provides an anthropological understanding of a selected culture. Areas of study include the culture's language, processes of enculturation, subsistence patterns and economics, kinship and descent, political organization, religion, art, history, and its reactions to the forces of globalization.

ANT 222 Exploring Other Cultures II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ANT 221

Provides an anthropological understanding of another selected culture (continuation of ANT 221) with a more in-depth treatment. Areas of study include the culture's language, processes of enculturation, subsistence patterns and economics, kinship and descent, political organization, religion, art, history, and its reactions to the forces of globalization.

ANT 225 Anthropology of Religion

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the culturally universal phenomenon of religion. Cross-cultural varieties of beliefs in the supernatural and the religious rituals people employ to interpret and control their worlds are examined.

ANT 255 Anthropology of Energy

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Questions of energy production and consumption occupy a central role in national and global debates. Where does the majority of our energy currently come from, and where should it come from in the future? What is at stake in our energy lifestyles on both local and global scales?

ANT 260 Sex, Gender and Culture

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the anthropology of gender including the relationship between biology and culture in human evolution, archaeological evidence of gender distinctions in prehistory, cross-cultural constructions of masculinity, femininity, and sexuality, variations in the sexual division of labor and economic stratification, gender differences in ritual and religion, and the impact of gender issues in contemporary global culture change.

ANT 263 Anthropology of Folklore

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Note: This course may be taken without prior introductory courses in anthropology

This course is a cross-cultural examination of oral traditions and verbal arts and how they reflect and preserve cultural values and worldviews. Various narratives (myths, legends, and tales), dramas, poetry, and other structured sayings are considered.

ANT 280 Southwest Field Exploration

2 Credit Hours • 75 Contact Hours (Field)

Prerequisite: CCR 092

Introduces the social, religious, economic, and cultural development of the Anasazi. Major ruins, excavation sites, and laboratory facilities in the Four Corners region are explored.

Arabic Courses

ARA 111 Arabic Language I

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: CCR 092

Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the Arabic language.

ARA 112 Arabic Language II

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: ARA 111 (Grade of C or higher)

Continues Arabic Language I in the development of functional proficiency in listening, speaking, reading and writing the Arabic language.

ARA 211 Arabic Language III

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ARA 112

Continues Arabic I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Arabic language.

ARA 212 Arabic Language IV

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ARA 211 (Grade of C or higher)

Continues Arabic Language I, II, and III in the development of increased functional proficiency in listening, speaking, reading and writing the Arabic language.

Architectural Engineer/Construction Management Courses

AEC 102 Residential Construction Drawing

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisites: AEC 104, CAD 101

Covers an investigation of light frame construction techniques and the production of residential construction drawings. The course covers residential construction materials, components and systems related to wood frame structures. Students produce a professional set of construction drawings of a residential structure.

AEC 104 Architectural Drawing Theory

4 Credit Hours • 60 Contact Hours (Lecture)

Print reading, construction assemblies, terminology, isometric drawings, orthographic projections, and oblique sketching.

AEC 107 Print Reading Residential/Commercial

3 Credit Hours • 52.5 Contact Hours (30 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: AEC 104

Interpret construction prints and the related documents produced by the residential or commercial architect and used in the construction industry.

AEC 121 Construction Material/Systems

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: AEC 104, AEC 107

Examines building materials and construction techniques. Topics include a study of soils, concrete, brick, masonry, steel, timber, and plastics and a study of types of building structural systems and components. Principles of interpreting light commercial construction drawings (blueprints) for structural and trade information are also introduced.

AEC 122 Construction Practices & Documents

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: AEC 102, AEC 104, AEC 107, CAD 101

Investigates construction practices, specifications, contracts and other legal documents used in the building construction industry. The roles and responsibilities of design and construction team participants are also explored.

AEC 123 Commercial Construction Drawing

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: AEC 102, AEC 104, CAD 101

Examines the process of drawing commercial architectural plans, elevations, sections, details, and schedules. Students produce a portfolio of construction drawings of a multistory core and shell of a structure.

AEC 125 History of Architecture

3 Credit Hours • 45 Contact Hours (Lecture)

This course will cover major periods of architectural development. Social and cultural values influencing architecture will be highlighted as well as the interaction of art, engineering and architecture as forms of expression.

AEC 126 Construction Estimating

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: AEC 104, AEC 107, AEC 121, CIS 118

Covers basic construction estimating. The student will develop skills in estimating the amount and cost of various constructions. He/She will demonstrate these skills by making estimates of material and labor quantities and cost for representative types of construction.

AEC 218 Sustainable Building Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisites: AEC 102, AEC 104, AEC 107, AEC 121

Investigates the technologies and strategies related to sustainable (green) materials and systems for buildings. Topics include: energy and environmental consciousness/regulations; the high performance building envelope; alternative construction techniques (adobe, cob, rammed earth, straw bale); microclimate/site factors; sustainable/green materials; and passive solar; active thermal solar, photovoltaic energy, wind energy conversion, on site water use/reuse and waste disposal systems.

AEC 220 Surveying

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: AEC 102, AEC 104, AEC 107

The course includes the fundamentals of plane surveying and basic surveying instruments. It emphasizes construction-related aspects of surveying and the development of skills in using surveying field information. Surveying projects are generally covered in coordinated and fieldwork segments.

AEC 225 Architectural Design & Development

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: AEC 102, AEC 121, AEC 123, AEC 218, CAD 224

Reviews conceptual design, site analysis, and architectural drafting techniques. Students will be introduced to the development of design ideas and theories and learn how to present those ideas visually. Students will be required to analyze a site and produce a design solution that responds to that particular site through a combination of research data, conceptual models, drawings, and sketches. The student will produce a final presentation of all relevant data, sketches, conceptual models, and drawings using presentation boards produced in various graphical programs.

AEC 226 Construction Scheduling

3 Credit Hours • 52.5 Contact Hours (30 Lecture, 22.5 Lecture/Lab Combination)

Prerequisites: AEC 102, AEC 104, AEC 107, AEC 121

Students will research various methods of project scheduling. Emphasis will be placed on critical path method techniques and strategies.

AEC 232 Construction Project Management

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: AEC 102, AEC 121, AEC 216, AEC 226, AEC 236, CAD 101, CAD 224

Investigates building construction management principles including a study of systematic scheduling techniques, project tracking and control methods, and budget and cost analysis and control.

AEC 236 International Building Codes

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: AEC 102, AEC 121

A study is made of the restrictions, standards, and requirements that in the interest of public safety and welfare have been established by law to govern the construction of buildings and their materials. Specifications are developed to describe building materials to be furnished and how they are to be installed.

AEC 280 Internship

3 Credit Hours • 135 Contact Hours (Internship)

Note: Must have Instructor permission

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.

Art Courses**ART 110 Art Appreciation: AH1**

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

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

ART 111 Art History Ancient to Medieval: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

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

ART 112 Art History Renaissance to 1900: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Renaissance to 1900.

ART 113 History of Photography

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Surveys the history of photography from its beginnings to the present. Emphasizes individual photographers who have made significant contributions to the field. Includes technical, artistic, commercial and social development of photography as a form of visual communication.

ART 114 Art Sampler

1 Credit Hour • 22.5 Contact Hours (7.5 Lecture, 15 Lab)

Introduces students to basic skills through various art media. This course may be repeated under a different subtitle for a maximum of six Credit Hours. Encompasses a multitude of one-credit art experiences that expose students to an art form that they may wish to explore further.

ART 115 Stained Glass I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

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

ART 116 Stained Glass II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 115

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

ART 117 Fiber Design I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

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

ART 118 Weaving Techniques Southwest I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Introduces traditional Southwest weaving. Focuses on building a loom, carding raw wool, hand spinning, dye baths, and actual rug weaving. Explores Southwest history and culture as related to weaving.

ART 119 Weaving Techniques Southwest II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 118

Continues the focus on traditional Southwest weaving. Emphasizes building a loom, carding raw wool, hand spinning, dye baths, and actual rug weaving. Explores Southwest history and culture as related to weaving.

ART 121 Drawing I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

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

ART 122 Drawing for the Graphic Novel

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Studio)

Introduces the drawing and fine art principles used in developing illustrations for the graphic novel. Students explore the graphic novel as a vehicle for a unique, personal venue for artistic expression. Students explore the history of the graphic novel as well as examine different artistic styles used in the development of graphic novel illustrations. The application of artistic concepts in the creation of an individual graphic work and thorough examination of course material in terms of style, design considerations and visual elements are the primary focus. Students will create images for a graphic novel, focusing on unity of style and techniques for creating images appropriate to story line using black and white or grayscale illustrations.

ART 124 Watercolor I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Note: ART 121 recommended

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

ART 127 Landscape Drawing I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Emphasizes nature, particularly landscape. Drawing outside or in view of landscape using graphite, ink, prismacolor, pastel, and washes. Students concentrate on various approaches, viewpoints, and styles and acquire expertise and interpretation in a variety of media.

ART 128 Figure Drawing I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Note: ART 121 recommended

Introduces the basic techniques of drawing the human figure.

ART 129 Printmaking I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Introduces the basic techniques and skills of printmaking as a fine art media. Instruction includes an understanding of visual concepts as they relate to prints. May include introduction to relief, intaglio, lithography, and screen printing techniques.

ART 131 Visual Concepts 2-D Design

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

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

ART 132 Visual Concepts 3-D Design

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Note: ART 132 is not computer-based

Focuses on learning to apply the elements and principles of design to three dimensional problems.

ART 133 Jewelry & Metalwork I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Introduces the construction of jewelry designs in metals and small casting techniques.

ART 137 Enameling on Metal I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Introduces the techniques, history, application, and potentials of glass fused to metal at high heat in greater depth than in the 1 credit enameling course. Individual studio projects explore the brilliance of glass and the versatility of metals in enameling. Formal critiques accompany each project so that students experience and profit from instructor comment and peer comment.

ART 138 Film Photography I

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces black and white photography as a fine art medium and develops skills necessary for basic camera and lab operations.

ART 139 Digital Photography I

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: ART 138 or PHO 120 or PHO 121

Introduces the basic concepts of digital imaging as applied to photography. Using applicable technology and hands on experience, modern developments are presented leading to the present applications of digital imaging which combine traditional photographic ideas with electronic media. Enables the student to learn how to operate image manipulation software using a variety of scanning equipment, software tools and output devices by executing new assignments and applying these technologies to their photographic process.

ART 142 Landscape Photography

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: ART 138 (Grade of B or higher) or PHO 120 (Grade of B or higher) or PHO 121 (Grade of B or higher)

Focuses on traditional and contemporary approaches to landscape photography. Examines technical and aesthetic aspects of landscape photography through group discussions, a field study, lectures, and print and slide critiques.

ART 144 Portrait Photography

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: ART 138 or PHO 120 or PHO 121

Teaches the technical and aesthetic aspects of studio and location portrait photography. This course explores the personal style of portraiture, history of the field and portraiture as a visual language and creative expression. This topic also includes lighting, composition, posing, and equipment selection.

ART 149 Mixed Media I: Digital Art

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Introduces students to the design and creation of fine-art composites that involve the combinations of techniques, texture,

drawing, painting, photography, and objects, and emphasizes the computer as an art tool. In addition to incorporating technology-based vocabulary as it relates to fine-art technique, vector and raster applications are explored for the creation of montage and collage. No computer experience is necessary.

ART 150 Digital Art Foundations I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Explores visual problem solving using digital tools for fine art. Students will learn to draw and paint in a variety of artistic modalities using color and grayscale. Two-dimensional to three-dimensional observation exercises in composition will be explored. Students will develop their skills in gesture and contour drawing, painterly expression and artistic elements while using the computer as an art tool. Use of systematic applications for development and presentation of ideas is practiced using vector and raster software. No computer experience is necessary.

ART 151 Painting I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Note: ART 121 and ART 230 recommended

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

ART 152 Landscape Painting

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Focuses on specific landscape concerns in the painting media of your choice.

ART 153 Pastel Painting

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Approaches the pastel medium in an inventive manner and introduces students to soft pastels and their many approaches to painting with them. Color theory will be taught in practice and application.

ART 154 Figure Painting I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Focuses on painting the human figure, and includes a brief survey of figure painting and instruction in the fundamental methods of composition and expressions.

ART 155 Portraiture

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Introduces portrait drawing using various media, such as pencil, charcoal, pastel, and watercolor. Head and hand structures and their individual features and composition (using art elements and principles) are emphasized.

ART 161 Ceramics I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

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

ART 162 Handbuilt Clay I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Provides instruction in several methods of hand building and the study of functional and decorative design elements.

ART 163 Handbuilt Clay II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 162

Provides continued instruction in various methods of hand building.

ART 164 Handbuilt Clay III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 163

Covers advanced problems with importance placed on large scale pieces that promote creativity with techniques and combinations of different textures.

ART 165 Sculpture I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Note: ART 132 recommended

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

ART 166 Raku

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 161 or ART 162

Studies the Japanese art of Raku pottery. Students may hand build or make wheel thrown pots and will be involved in the unique firing process.

ART 167 Sculpting the Figure

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Focuses on sculpting the human figure using modeling techniques in clay.

ART 207 Art History – 1900 to Present: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

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

ART 208 Culture Studies

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Studies the arts and history of a particular culture at the location of that culture. Students view the arts and architecture of the culture in the historical and spatial contexts for which they were designed and in galleries and museums.

ART 209 Studio Art

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Designed for advanced students interested in further exploring an art discipline to develop a more comprehensive portfolio.

ART 210 Marketing for Visual Arts

3 Credit Hours • 45 Contact Hours (Lecture)

Provides students with the framework, tools, and professional materials necessary for the practicing visual artist. Guidelines for writing proposals, artist's statements, and resumes are discussed and practiced. Explores theoretical and practical considerations related to portfolio presentation and exhibiting artwork through hands-on activities, readings, and discussion.

ART 211 Business of Visual Art

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces students to the principles and practices involved in creating and operating arts organizations in the profit and not-for-profit art world.

ART 215 Stained Glass III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 116

Provides continued instruction in which students advance to a clearer and more advanced understanding and approach to stained glass. Students gain a greater understanding of and appreciation for the properties of glass and the nature of finished stained glass construction. Emphasizes original, personal expression.

ART 216 Stained Glass IV

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 215

Continues instruction in stained glass with students advancing to a clearer understanding and approach. Students gain greater appreciation for the properties of glass and the nature of finished stained glass construction. Focuses on original, personal expression. Student independence is emphasized with regard to use of material and tools and a wide variety of glass.

ART 217 Fiber Design II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 117

Continues instruction in fiber design (ART 117, Fiber Design I).

ART 218 Weaving Techniques Southwest III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 119

Provides continued study of Southwest weaving techniques with emphasis on the creation of a woven rug utilizing an original design based on the traditional artistic elements portrayed in Southwest history and culture.

ART 219 Weaving Techniques Southwest IV

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 218

Continues Southwest Weaving with emphasis on creating a Southwest Rug based on an original design.

ART 221 Drawing II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 121

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

ART 222 Drawing III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 221

Offers a continued study of expressive drawing techniques and development of individual style, with an emphasis on composition and technique variation.

ART 223 Drawing IV

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 222

Explores advanced drawing problems with an emphasis on conceptual development and portfolio and/or exhibition quality presentation.

ART 224 Watercolor II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 124

Continues the study of watercolor techniques, emphasizing original compositions and experimentation with materials. Color theory is included.

ART 225 Watercolor III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 224

Concentrates on the advanced study of subject development, form, color, and theme in watercolor.

ART 226 Watercolor IV

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 225

Concentrates on the advanced study of techniques, individual style or expression, and consistency of compositional problem solving in watercolor.

ART 227 Landscape Drawing II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 127

Focuses on drawing outdoors or in view of landscape (both rural and inner city) using graphite, ink, washes, pencils, pastels, and watercolor. Students concentrate on various approaches, viewpoints, and styles and acquire expertise in a variety of media. Each student presents finished pieces matted for critique.

ART 228 Advanced Figure Drawing

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 128

Provides continuing study of the various methods of drawing the human figure, with emphasis on the description of form and individual style.

ART 229 Printmaking II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 129

Introduces more advanced techniques and skills of printmaking as a fine art media. Instruction includes an understanding of visual concepts as they relate to prints. May include introduction to relief, intaglio, lithography, and screen printing techniques.

ART 230 Color Theory

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Explores the properties and concepts of color for application in fine art, commercial art and/or applied arts using various traditional fine art techniques and materials.

ART 232 Advanced Visual Concepts 3-D Design

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 132

Provides continued study of the principles and elements of three-dimensional design with an emphasis on visual communication for further application in fine art, commercial art, and/or applied arts.

ART 233 Jewelry & Metalwork II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 133

Emphasizes conceptual design development using casting and specialized techniques.

ART 234 Jewelry & Metalwork III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 233

Focuses upon advanced work and emphasizes experimentation with materials and techniques, individual designs, and superior craftsmanship.

ART 235 Jewelry & Metalwork IV

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 234

Provides continued study of the properties of metal and stone in creating decorative work. Students employ advanced design and techniques to explore original, personal expression. A variety of materials and approaches are used in discovering new and independently creative finished pieces.

ART 237 Enameling on Metal II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 137

Provides continued study of Enameling on Metal I with emphasis on individual designs, advanced techniques, and the effect of technology on the craft.

ART 238 Film Photography II

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: ART 138 or PHO 120 or PHO 121

This course is a further exploration in camera and lab operations with an emphasis on individual creativity. It includes the development of a comprehensive portfolio.

ART 239 Digital Photography II

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: ART 139

Expands upon the beginning digital photography class. Focuses on digital photography in terms of design and communication factors including color, visual design, lighting, graphics, and aesthetics.

ART 242 Alternative Photo Processes

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: ART 238

Explores several non-silver photographic processes including the Platinotype, Cyanotype, and Van Dyke Brown printing techniques. Production of enlarged negatives from 35mm negatives and transparencies as required for contact printing for these processes.

ART 249 Mixed Media II: Digital Art

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 149

Continues the design and creation of fine-art composites with the emphasis on digital tools and techniques. More advanced drawing and painting techniques are also emphasized, using digital creation techniques. Learners will develop and design artistic projects to demonstrate studio elements and principles. Portfolio development, strong content, and a blending of a variety of computer applications for art will be emphasized.

ART 250 Digital Art Foundations II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 150

Reviews and further explores the process of generating design utilizing a variety of digital tools. In this course, students will develop their proficiency with the digital tools and learn more advanced techniques in drawing and painting. Students will develop and evaluate their design-oriented projects using the elements and principles. Portfolio development, strong content, and a blending of a variety of computer art applications will be emphasized.

ART 251 Painting II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 151

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

ART 252 Painting III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 251

Provides continued exploration of techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development.

ART 253 Painting IV

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 252

Explores advanced techniques, materials, and concepts used in opaque painting processes, with emphasis on the development of themes and a cohesive body of work.

ART 254 Advanced Figure Painting

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 154

Offers continued study of painting the human figure with advanced problem solving in composition and experimentation with materials and techniques.

ART 256 Mixed Media Painting

3 Credit Hours • 75 Contact Hours (Studio)

Introduces the use of mixed media materials as alternative painting processes. This course explores new techniques, alternative painting materials, and concepts used in painting with mixed and alternative materials. Students will also work on composition and content development.

ART 261 Ceramics II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 161

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

ART 262 Ceramics III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 261

Encourages students to develop an individual style of wheel thrown and hand built ceramic forms with continuing involvement in surface treatment.

ART 263 Ceramics IV

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 262

Continues advanced work with emphasis on various clay bodies, unique glazes and engobes, combining different textures and shapes, and development of personal forms.

ART 264 Ceramic Sculpture

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Explores a variety of processes to create three-dimensional images in clay. Focuses on hand-built sculptures without using a potter's wheel and relying on very basic tools. Encourages creative experimentation and engaging in the process.

ART 265 Sculpture II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: ART 132 or ART 165

Develops an understanding and focus on manipulation of three dimensional form, with greater concentration on individual creativity and style.

ART 280 Internship

1-6 Credit Hours • 45 Contact Hours per credit hour (Internship)

Note: Must have faculty consent to enroll

Provides the opportunity for students to gain supervised occupational experience in any of the disciplines involving the visual arts, including, but not limited to, gallery or museum administration and graphic design. Instruction is coordinated by the on-site supervisor and instructor and is totally based on the student's occupational experience plan.

ART 289 Capstone

1 Credit Hour • 22.5 Contact Hours (7.5 Lecture, 15 Lab)

Note: Instructor signature required to enroll

Provides a demonstrated culmination of learning within a given program of study.

Astronomy Courses

AST 101 Astronomy I with Lab: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: MAT 050 (Grade of C or higher)

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

AST 102 Astronomy II with Lab: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: MAT 050 (Grade of C or higher)

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

AST 110 Colorado Night Sky III

1 Credit Hour • 15 Contact Hours (Lecture)

Develops an appreciation of and competence in observational astronomy with the naked eye or small telescope. Introduces the use of images from major telescopes and spacecraft as a tool for experiencing the night sky. Special emphasis will be placed on the World Wide Telescope and what it has to offer. Rare observations such as supernovae, comets and solar activity will also be covered. Advanced tools of telescope astronomy and astrophotography may also be discussed. Emphasis is on observation rather than theory.

Auto Motorsports Technology Courses

AUT 105 Introduction to Motorsports Technology

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Provides an introduction to the motorsports industry and support industries. Introduces shop safety and vehicle safety.

AUT 108 Racing Vehicle Systems

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: AUT 105

Introduces racing vehicle systems, placing emphasis on chassis design, suspension and steering, engine systems, ignition systems, cooling systems, lubrication systems, clutch systems, transmissions, drive axles, and brake systems.

AUT 109 High Performance Suspension & Chassis Design

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Introduces the fundamentals of chassis types and components. Includes steering and suspension component theory, tire and wheel theory, chassis design, and geometry theory as applied to oval track, drag race, and road race vehicles.

AUT 110 High Performance Suspension & Chassis Setup

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Introduces chassis set-up based on vehicle purpose. Incorporates chassis measurement, including ride heights, caster, camber, steering toe, ackerman, control arm angles, roll centers, and weight distribution. All measurements are taken and adjustments completed to allow the vehicle to perform as desired.

AUT 116 High Performance Brake Systems

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Introduces high performance brake systems as applied to racing vehicles.

AUT 118 High Performance Power Trains

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Introduces high performance transmissions, drive lines, and differentials. Includes design, repair, and service techniques as applied to racing vehicles.

AUT 119 High Performance Electrical & Fuel Systems

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Introduces electrical and fuel systems as applied to racing vehicles. Includes carburetion, fuel injection, fuel pumps, fuel cells, ignition systems, switches, and wiring.

AUT 125 Engines I

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Provides for individual study, enabling self-paced instruction and features an open entry, open exit system. Emphasizes video and computer technology. Includes operation and construction of the internal combustion engine, both domestic and foreign. Covers inspection, measuring, parts identification, and vehicle I.D. The student presents video and computer knowledge by use of mock-up engines with instructor supervision.

AUT 126 Engines II

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: AUT 125

Develops procedures of diagnosis and testing from a knowledge of engine operation. Performs a complete engine rebuild process including the use of special equipment studied in AUT 125 and through the use of video and computer-assisted instruction.

AUT 127 High Performance Lubrication & Cooling Systems

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Introduces basics of wet and dry sump lubrication systems, oil delivery and filtration systems, oil chemical design and function. Focuses on the theory of cooling system design, components and coolants used in high performance applications.

AUT 128 High Performance Engine Design, Blueprinting, & Testing

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Introduces high performance engine theory, design, components and their function. Emphasizes disassembly and assembly techniques and an introduction to dynamometer testing.

AUT 136 Introduction to Racecar Body Fabrication

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Introduces a variety of techniques used in the forming of racecar body panels made up of various types of materials. Emphasizes sheet steel, aluminum, and composite plastics. Students practice the fabrication and finishing of body panels. Tools and equipment typically used in the industry are also covered.

AUT 137 Introduction to Racecar Chassis Fabrication

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Introduces the student to various designs and methods for fabrication of racecar chassis and roll cage components. Covers body mounting techniques and suspension pick up points.

AUT 205 Advanced Automotive Engines

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: AUT 126

This course is a continuation of Automotive Engines II with an emphasis on advanced diagnosis and engine rebuild techniques.

AUT 206 High Performance Engines

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Focuses on the theory of design and development of high performance engines. Covers the use of specialty equipment for the development of high performance engines.

Automotive Collision Technology Courses**ACT 101 Introduction to Automotive Collision Technology**

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Designed as an orientation to the automotive collision repair industry. Students receive an overview of job possibilities as well as learn various types of automobile construction. Names, uses, and maintenance procedures for a variety of tools and equipment are covered. Focuses on general collision repair and refinishing shop safety procedures with an emphasis on personal and environmental safety issues. Students also learn the proper handling and disposal of hazardous materials.

ACT 111 Metal Welding & Cutting I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 101

Covers sheet metal oxygen-acetylene welding and MIG welding techniques including safety, materials, equipment, and setups. Personal and vehicle protective measures prior to welding procedures are presented.

ACT 121 Non-Structural Repair Preparation

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 101

Covers the basic characteristics of preparation for automotive repair. Students familiarize themselves with damage analysis, extent of damage, and the sequence of repair. Focuses on removal of vehicle components and protection of panels along with storage and labeling of parts. Safety procedures and equipment use are included.

ACT 122 Panel Repair & Replacements

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 111, ACT 123

Covers straightening techniques including tension pulls/stress relief, metal finishing, metal shrinking, and use of fillers. Emphasizes the identification, handling, and replacement of parts such as adjustment and alignment of bolt-on parts, fixed parts, and accessories. Training covers the use of adhesives, sound deadeners, and welding methods performed during repairs.

ACT 123 Metal Finishing & Body Filling

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 101

Covers metal finishing, metal shrinking, and the use of cosmetic fillers. Emphasis is placed on the use of proper tools required to perform these tasks, including use, selection, and safety procedures for tools and equipment selected.

ACT 131 Structural Damage Diagnosis

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 122

Focuses on methods of frame measurement using dimension charts and service manuals. Includes the use of self-centering gauges and mechanical and electronic measuring. Appropriate terms and definitions of vehicle structures and vehicle diagnosis are covered, including identification and analysis of damage. Includes the techniques for basic hook ups and safety procedures used in making corrective pulls.

ACT 132 Structural Damage Repair

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 122

Continues the study and application of frame measurement and repair. The student applies methods found in dimension charts and service manuals for vehicle diagnosis and straightening. Training includes the replacement of a structural panel with the identification of damaged suspension components replaced according to manufacturer's recommendations.

ACT 142 Surface Preparation I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 101

Covers surface preparation for refinishing including cleaning, sanding, feather edging, chemical treatment of bare materials, and priming. The application of primers, including rationale and use is covered. In addition, the student learns skills for proper removal and storage of exterior trim and protection of adjacent panels.

ACT 143 Spray Equipment Operation

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 101

Covers the inspection, cleaning, and determination of the condition of spray guns and related equipment. Students learn skills for adjusting spray guns by setting-up and testing spray gun operations.

ACT 144 Refinishing I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 142, ACT 143

Provides the knowledge needed for application and use of automotive paint systems. Course includes locating color codes, mixing formulas, matching, and selections of materials. Proper

paint gun use and adjustments are taught for the product being applied. In addition, the student practices correct masking and detailing techniques.

ACT 151 Plastics & Adhesives I

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 121, ACT 243

Designed to teach the state-of-the-art repair for both rigid and flexible plastic components and choosing adhesives using the latest manufacturer's repair techniques.

ACT 164 Hobbyist's Paint & Body

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Grading: S/U only

Provides an opportunity for current and former students enrolled in the Auto Collision Technology program to practice skills previously learned, using their own vehicles as projects. Any automotive hobbyist who is not a former student may also sign up for the course; however, previous knowledge of basic body working and painting procedures is strongly recommended.

ACT 180 Automotive Collision Repair Internship Level I

2 Credit Hours • 90 Contact Hours (Internship)

Prerequisite: Completion of coursework in a specialized area

Designed to meet the needs of the student in a selected specialized area in a work-based environment. Individualized instruction at the job site is coordinated based on student's interest and instructor approval.

ACT 181 Automotive Collision Repair Level II Internship

2 Credit Hours • 90 Contact Hours (Internship)

Prerequisite: Completion of all courses in ACT specialization area

Course is a continuation of Level I Internship. Student uses the knowledge and skills acquired throughout the ACT program in a job site placement.

ACT 205 Estimating & Shop Management

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Initiates written estimates on damaged vehicles. Students learn shop management including work orders, ordering supplies, operating costs, time cards, shop liabilities, employee's safety and insurance management issues.

ACT 211 Metal Welding & Cutting II

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 101

Covers MIG welding procedures of seam weld, stitch welds, and destructive testing. Resistance spot welding, which includes two-sided spot weld, plasma cutting, safety, materials, and equipment and operating procedures, with emphasis on shop safety is also presented.

ACT 221 Moveable Glass & Hardware

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 101

Covers door glass, vent windows, and glass mechanisms (both electric and mechanical) with emphasis on removal and replacement. In addition, interior trim panels, seats, and headliners are removed and replaced. Student learns proper care and treatment of vehicle seat protectors plus the proper use of tools required to perform these tasks.

ACT 231 Advanced Structural Damage Diagnosis & Repair

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 131, ACT 132

Covers major automotive body repair in vehicles with major damage on conventional structures and unibody structures. Student learns the operation of equipment and techniques used to straighten and align damaged frames. Identification and analysis of frames, hot and cold stress relieving, servicing, and sectioning of structural frames are also included. Liability issues and the importance of making these corrections according to the manufacturer's recommendations and industry standards are emphasized.

ACT 232 Fixed Glass Repair

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 101

Covers the removal and replacement of fixed glass using manufacturer's specifications, proper tools, and recommended materials. Application of skills are demonstrated and utilized for the removal and replacement of modular glass using manufacturer's specifications and procedures.

ACT 241 Paint Defects

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 144

Covers paint defects. Emphasizes the causes of paint defects with methods to cure problems during and after refinishing procedures. Students learn to identify the proper surface preparations to apply prior to refinishing. Training includes using paint equipment and determining paint film thickness with proper temperatures for refinishing.

ACT 242 Surface Preparation II

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 142, ACT 143

Emphasizes surface preparation for refinishing including cleaning, sanding, feather edging, chemical treatment of bare metals, and priming. The application of primers, including why and where to use them is covered.

ACT 243 Refinishing II

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 142, ACT 143

In this advanced course students learn the necessary skills used to tint and blend panels working with the latest finishes and paints. Special coatings and procedures are covered in this course.

ACT 244 Final Detail

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 101

Focuses on the detailing procedures in paint refinishing of vehicles. Methods and techniques are specialized to enhance painting skills. Transfers and tapes methods with decals, etc. are demonstrated.

ACT 251 Plastics & Adhesives II

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ACT 121, ACT 243

Emphasizes advanced plastic and adhesives. The current state-of-the-art repair for both rigid and flexible plastic components using the latest manufacturer's repair techniques is presented. Sheet Molded Compound procedures and the use of proper adhesives are covered.

Automotive Service Technology Courses**ASE 102 Introduction to the Automotive Shop**

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

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

ASE 110 Brakes I

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: ASE 102

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

ASE 111 Automotive Brake Service II

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Teaches skills to perform service checks and procedures to automotive foundation braking system and to identify components and types of ABS and traction control systems.

ASE 120 Basic Automotive Electricity

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: ASE 102

Introduces vehicle electricity and includes basic electrical theory, circuit designs, and wiring methods. It also focuses on multimeter usage and wiring diagrams.

ASE 123 Starting and Charging System

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: ASE 120

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

ASE 130 General Engine Diagnosis

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: ASE 123

Teaches students how to perform basic engine diagnosis to determine condition of engine. This will include engine support systems.

ASE 132 Ignition System Diagnosis & Repair

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: ASE 130

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

ASE 134 Automotive Fuel and Emissions Systems I

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: ASE 132

Focuses on lecture and laboratory experiences in the diagnosis and repair of automotive fuel emission control systems, filter systems and spark plugs. Course also includes maintenance to diesel (DEF) systems.

ASE 140 Suspension & Steering I

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: ASE 102

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

ASE 141 Suspension & Steering II

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Covers design, diagnosis, inspection, and service of suspension and steering systems used on light trucks and automobiles. Course includes power steering and SRS service.

ASE 150 Manual Drive Train and Axle Maintenance

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: ASE 102

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

ASE 151 Automotive Manual Transmission/Transaxles & Clutches

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Prerequisite: ASE 150

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

ASE 152 Manual Transmission, Transaxles and Clutches II

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: ASE 151

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

ASE 160 Automotive Engine Repair

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: ASE 102

Focuses on lecture and laboratory experiences in the service of cylinder head, valve-train components and components of the cooling system. Course also includes engine removal and re-installation and re-mounting systems.

ASE 161 Engine Repair & Rebuild

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: ASE 160

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

ASE 163 Automotive Component Removal & Replacement

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Practical methods of removal and installation of engines, transmissions, transfer cases, clutch assemblies, bolt, and thread repair.

ASE 201 Automotive Parts Management

1 Credit Hours • 22.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ASE 102, ASE 120, ASE 123 and consultation with advisor

Covers instruction as to the proper methods in completing parts invoices, repair orders, sales receipts and tickets. Also included are handling and pricing procedures utilized in parts areas: warehouse distributor, jobber, retail and wholesale prices.

ASE 210 Automotive Power and ABS Brake Systems

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: ASE 110, ASE 111

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

ASE 220 Specialized Electronics Training

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: ASE 120

Provides a systematic approach to automotive electrical systems. Builds from the basic electrical principles and concepts through semiconductors and microprocessors. Features on-bench exercises. Students practice diagnostic procedures that have applications to present and future automotive electronics and electrical systems.

ASE 221 Auto/Diesel Body Electrical

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: ASE 120

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

ASE 231 Automotive Computers and Ignition Systems

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: ASE 120, ASE 134, ASE 220

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

ASE 233 Auto Fuel Injection and Emissions Systems II

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: ASE 120, ASE 134, ASE 231

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

ASE 235 Drivability Diagnosis

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: ASE 233

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

ASE 240 Suspension & Steering II

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: ASE 140, ASE 141

Covers operation of steering and power steering systems. It will also include different alignment types and procedures.

ASE 250 Automatic Transmission/Transaxle Service

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ASE 102

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

ASE 251 Automotive Transmission and Transaxle Repair

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: ASE 250

Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation, remove and re-install transmission/transaxle, and replacement of components.

ASE 265 Heating and Air Conditioning Systems

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: ASE 102

Emphasizes lecture and related laboratory experiences in the diagnosis and service of automotive heating and air conditioning systems and their components.

ASE 282 Internship: General (Summer)

1 Credit Hour • 45 Contact Hours (Internship)

Emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student takes all related sponsor requirements in (STS) Service Training Standards (General Motors) or (F.A.S.T.) Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Biology Courses**BIO 104 Biology: A Human Approach: SC1**

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: MAT 050 or concurrent enrollment

Note: College level reading skills are required for success in this course

Develops a basic knowledge of the structure and function of the human body by studying the body's structure as a series of interrelated systems. Includes cardiovascular, respiratory, digestive, lymphatic, musculoskeletal, nervous, endocrine,

reproductive and urinary systems, and genetics. Emphasizes disease prevention and wellness. This course includes laboratory experience.

BIO 105 Science of Biology: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: MAT 050 or concurrent enrollment

Note: College level reading skills are required for success in this course

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

BIO 106 Basic Anatomy & Physiology

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: CCR 092 (Grade of C or higher)

Focuses on basic knowledge of body structures and function, and provides a foundation for understanding deviations from normal and disease conditions. This course is designed for individuals interested in health care and is directly applicable to the Practical Nursing Program and the Medical Office Technology program.

BIO 111 General College Biology I with Lab: SC1

5 Credit Hours • 90 Contact Hours (60 Lecture, 30 Lab)

Prerequisite: ENG 121 (Grade of C or higher), MAT 055 or permission of instructor

Examines the fundamental molecular, cellular, and genetic principles characterizing plants and animals. Includes cell structure and function, the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. The course includes laboratory experience.

BIO 112 General College Biology II with Lab: SC1

5 Credit Hours • 90 Contact Hours (60 Lecture, 30 Lab)

Prerequisite: BIO 111 (Grade of C or higher)

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

BIO 148 Basic Ecology

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Studies the interrelationships between organisms and their environment. Includes population dynamics and the diversity of ecosystems. Laboratory includes field experience.

BIO 149 Plant Taxonomy

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Focuses on beginning biological and botanical terminologies, techniques, and experiments and provides a strong background in plant relationships and identification of plants. Includes laboratory and field experience.

BIO 150 Animal Biology

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Focuses on the phylogenetic study of animals. Includes an introduction to the invertebrates and a concentrated study of the diverse vertebrate forms. Laboratory experiences parallel lecture topics.

BIO 154 Biology of Plants

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

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

BIO 201 Human Anatomy & Physiology I: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: BIO 111 (Grade of C or higher) or permission of instructor

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

BIO 202 Human Anatomy & Physiology II: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: BIO 201 (Grade of C or higher)

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

BIO 203 Advanced Human Anatomy

2 Credit Hours • 60 Contact Hours (Lab)

Examines the gross anatomical structure of the human body and the relationship between form and function. Students will prosect a human cadaver. Systems covered will include integument, digestive, respiratory, skeletal, muscular, reproductive, endocrine, lymphatic, urinary, nervous and cardiovascular. This is a course designed for allied health, education, biology and other students who wish to obtain advanced knowledge of human anatomy. Requires hands-on laboratory experience.

BIO 204 Microbiology: SC1

4 Credit Hours • 90 Contact Hours (45 Lecture, 45 Lab)

Prerequisite: BIO 111 (Grade of C or higher), permission of instructor or BIO accuplacer score of 70 or higher

Designed for health science majors. Examines microorganisms with an emphasis on their structure, development, physiology, classification, and identification. The laboratory experience includes culturing, identifying, and controlling microorganisms with an emphasis on their role in infectious disease.

BIO 211 Cell Biology

4 Credit Hour • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: BIO 111

This course is an intensive study of the cell and its organelles. Emphasis will be on the molecular mechanisms involved in cell communication, metabolism, motility, genetics, growth, and reproduction. This course requires hands-on laboratory experience.

BIO 212 Molecular Biology

4 Credit Hour • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: BIO 111

This course is an intensive survey of molecular biology techniques and principles. Topics will include chemical and enzymatic reactions, cellular processes, DNA, RNA, and protein manipulations, and genetic studies. This course requires hands-on laboratory experience.

BIO 216 Human Pathophysiology

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: BIO 202

Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

BIO 220 General Zoology: SC1

5 Credit Hours • 90 Contact Hours (60 Lecture, 30 Lab)

Prerequisite: BIO 111

Focuses on the study of invertebrate and vertebrate animals and examines structure, evolutionary development, ecology, classification, physiology, reproduction, and zoogeography. A survey of zoological diversity emphasizing the characteristics, zoological contributions, and classification of animal phyla and major classes, this course requires hands-on laboratory and field experience. This course is designed for biology majors.

BIO 221 Botany with Lab: SC1

5 Credit Hours • 90 Contact Hours (60 Lecture, 30 Lab)

Prerequisite: BIO 111

This course is designed for biology majors. It is a study of nonvascular and vascular plants. It emphasizes photosynthetic pathways, form and function, reproduction, physiology, genetics, diversity, evolution, and ecology. This course requires mandatory hands-on laboratory and field experience.

BIO 224 Genetics: SC1

4 Credit Hour • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: BIO 111

Studies the fundamental laws of heredity and their application to living organisms. Covers the basics of genetics. Focuses on the laws of Mendel, linkage, mutation concept, molecular genetics, and the Hardy-Weinberg law. Includes a laboratory experience.

Business Courses**BUS 105 Business Orientation**

0.5 Credit Hours • 7.5 Contact Hours (Lecture)

Places emphasis on getting acquainted with the college and each other, advising and career exploration, study skills strategies, presentation skills and team building exercises. This is an introductory course required for all freshmen business majors.

BUS 115 Introduction to Business

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

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

BUS 181 Internship

3 Credit Hours • 135 Contact Hours (Internship)

Prerequisite: Program Advisor's approval

Provides students with hands-on training in their career field. Occurs in a business setting arranged through a Student Work Experience (SWE)/Internship Coordinator, or by utilizing a current employment organization. Student is expected to work a minimum of 7.5 hours per week. Students attend three seminars during the semester of enrollment. Class utilizes cooperative work experience or project methods depending on the individual situation.

BUS 182 Internship

3 Credit Hours • 135 Contact Hours (Internship)

Prerequisite: BUS 181

Provides continued instruction and work experience.

BUS 203 Introduction to International Business

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: BUS 115 and sophomore standing

Provides student with an understanding of the interdisciplinary nature of international business. Course will cover the development of international business; theories and methods of international trade; financing mechanisms and terms used in export documentation and export finance; the effects of economics, political and cultural environment on international business and trade; impact of geography in business transactions;

legal aspects of international business; and developing an effective international marketing strategy.

BUS 204 Introduction to E-Business

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: BUS 115

Introduces the use of technology in all aspects of a business. Explores the use of technology for customer relations management, accounting and financial applications, purchasing and production tools, sales and marketing functions, and human resources management. Examines use of the Internet, world-wide-web and sophisticated multi-function software tools. Students gain a heightened awareness of emerging technologies and trends in e-business.

BUS 216 Legal Environment of Business

3 Credit Hours • 45 Contact Hours (Lecture)

Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is devoted to economic regulation, social regulation, regulation and laws impacting labor-management issues, and environmental concerns. Students develop an understanding of the role of law in social, political, and economic change.

BUS 217 Business Communication & Report Writing

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

BUS 226 Business Statistics

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MAT 050

Focuses on statistical study, descriptive statistics, probability, and the binominal distribution, index numbers, time series, decision theory, confidence intervals, linear regression, and correlation. Intended for the business major.

BUS 281 Internship

1-6 Credit Hours • 45 Contact Hours per credit hour (Internship)

Prerequisite: BUS 182

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

BUS 282 Internship

1-6 Credit Hours • 45 Contact Hours per credit hour (Internship)

Prerequisite: BUS 281

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

Business & Technology Education Courses**BTE 100 Computer Keyboarding**

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Grading: S/U only

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

BTE 102 Keyboarding Applications I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Prerequisite: Ability to Keyboard 20 WPM or faculty consent
 Designed for students with minimal keyboarding skills. Introduces letters, tables, memos, and manuscripts. Emphasizes speed and accuracy.

BTE 108 Ten-Key by Touch

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
 Introduces touch control of the ten-key pad. Emphasizes the development of speed and accuracy using proper technique.

BTE 111 Keyboarding Speedbuilding I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Prerequisite: Ability to keyboard by touch or faculty consent
 Grading: S/U only
 Designed to increase speed and improve accuracy in keyboarding on the PC through the use of correct techniques and concentrated effort.

BTE 166 Business Editing Skills

3 Credit Hours • 45 Contact Hours (Lecture)
 Provides proofreading techniques and reviews spelling, punctuation, grammar, and word processing formats on various types of business documents and worksheets.

BTE 187 Cooperative Education/Internship

3 Credit Hours • 135 Contact Hours (Internship)
 Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work sites that are related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

Chemistry Courses

CHE 101 Introduction to Chemistry I: SC1

5 Credit Hours • 90 Contact Hours (60 Lecture, 30 Lab)
Prerequisite: MAT 050 or concurrent enrollment
 Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background.

CHE 102 Introduction to Chemistry II: SC1

5 Credit Hours • 90 Contact Hours (60 Lecture, 30 Lab)
Prerequisite: CHE 101
 Focuses on introductory organic chemistry and biochemistry (sequel to Introduction to Chemistry I). Includes the study of hybridization of atomic orbital's for carbon, nomenclature of both organic and biochemical compounds, physical and chemical properties of various functional groups of organic chemistry, and physical and chemical properties of biochemical compounds along with their biochemical pathways. Laboratory experiments are included.

CHE 111 General College Chemistry I: SC1

5 Credit Hours • 105 Contact Hours (60 Lecture, 45 Lab)
Prerequisite: MAT 121 or concurrent enrollment and one year of high school chemistry
 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry, and thermochemistry. This courses covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms and the relationship of electron configuration to chemical bond theory and molecular orbital theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments.

CHE 112 General College Chemistry II: SC1

5 Credit Hours • 105 Contact Hours (60 Lecture, 45 Lab)
Prerequisite: CHE 111 (Grade of C or higher), MAT 121
 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, electrochemistry, nuclear chemistry, and organic chemistry. Emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques.

CHE 211 Organic Chemistry I

5 Credit Hours • 105 Contact Hours (60 Lecture, 45 Lab)
Prerequisite: CHE 112 (Grade of C or higher)
 Focuses on compounds associated with the element carbon including structure and reactions of aliphatic hydrocarbons and selected functional group families. This course covers nomenclature of organic compounds, stereochemistry, and reaction mechanisms such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry. UCCS transfer equivalent CHEM 3101/3102

CHE 212 Organic Chemistry II

5 Credit Hours • 105 Contact Hours (60 Lecture, 45 Lab)
Prerequisite: CHE 211 (Grade of C or higher)
 Continues the investigation into the chemistry of carbon-based compounds, their reactions and synthesis including the structure, physical properties, reactivity, and synthesis of organic functional groups not covered in the first semester. This course explores functional groups including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids and the reactions and reaction mechanisms of aromatic compounds. An introduction to biochemical topics may be included if time permits. Lab experiences demonstrate the above concepts and the laboratory techniques associated with organic chemistry. UCCS transfer equivalent CHEM 3111/3112

Chinese Courses

CHI 111 Chinese Language I

5 Credit Hours • 75 Contact Hours (Lecture)
Prerequisite: CCR 092
 Focuses on the development of functional proficiency in listening, speaking, reading and writing the Chinese language.

CHI 112 Chinese Language II

5 Credit Hours • 75 Contact Hours (Lecture)
Prerequisite: CHI 111
 Continues Chinese Language I in the development of functional proficiency in listening, speaking, reading and writing the Chinese language.

CHI 211 Chinese Language III

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CHI 112
 Focuses on the further development of functional proficiency in listening, speaking, reading and writing the Chinese language.

College Composition & Reading Courses

CCR 092 College Composition & Reading

5 Credit Hours • 75 Contact Hours (Lecture)
Prerequisite: Accuplacer score of 50(SS) or 40(RC), AAA 109 or concurrent enrollment
 Integrates and contextualizes college level reading and writing. Students will read and understand complex materials and respond to ideas and information through writing informative and/or persuasive texts.

CCR 094 Studio 121

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: Accuplacer score of 70(SS) and 62(RC) or ACT score of 17**Note: CCR 094 must be taken concurrently with ENG 121*

Integrates and contextualizes reading and writing strategies tailored to co-requisite ENG 121 coursework. Students will read and understand complex materials, and respond to ideas and information through writing informative and/or persuasive texts.

Communication Courses

COM 115 Public Speaking

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Combines the basic theory of speech communication with public speech performance skills. Emphasis is on speech delivery, preparation, organization, support, and audience analysis and delivery.

COM 125 Interpersonal Communication

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines the communication involved in interpersonal relationships occurring in family, social, and career situations. Relevant concepts include self-concept, perception, listening, nonverbal communication, and conflict.

COM 214 Natural Resource Interpretation and Communication

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Provides communication and interpretation training for those required to interpret natural resource data 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 learners from pre-K through mature adulthood using various presentation techniques including, but not limited to, visual aids, props, dramatic performance, and puppetry.

COM 216 Principles of Speech Communication II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092, COM 115

Emphasizes the continued study of rhetorical theory and analysis as it relates to public speaking.

COM 217 Group Communication

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation.

COM 220 Intercultural Communication: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the link between culture and communication and will develop and/or enhance communication skills and the abilities appropriate to a multicultural society. Emphasis will be on understanding diversity within and across cultures. Relevant concepts include perception, world view, context, ethics, language, and nonverbal communication.

COM 225 Organizational Communication

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Note: Students encouraged to take COM 115 and/or have organizational setting experience.

This course focuses on the role of communication theory and skills as they apply to business and organizational settings. Topics

include organizational and leadership models, effective communication skills with peers, superiors, and subordinates, environmental factors impacting communication, and interviewing skills.

Computer & Networking Technology Courses

CNG 101 Networking Fundamentals

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces network fundamentals using the OSI (Open Systems Interconnection) model and TCP/IP (Transmission Control Protocol/Internet Protocol) suite, fundamentals of Ethernet, IP addressing, and building simple LANs (Local Area Networks).

CNG 102 Local Area Networks

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces Local Area Networking. Focuses on discussions and demonstrations of planning, installing, and supporting networks.

CNG 103 Wide Area Networks

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the student with conceptual and working knowledge of how Local Area Networks communicate over a wide area. Introduces telephony - the technology of switched voice communications. Provides students with an understanding of how communication channels of the public switched telephone networks are used for data communications and how voice data communications have become integrated.

CNG 104 Introduction to TCP/IP

3 Credit Hours • 45 Contact Hours (Lecture)

Outlines four important networking architectures in corporate environments today - TCP/IP, SNA, AppleTalk, and DNA. Focuses on the major components and functions of each of these architectures as well as methods used to connect different architectures. Provides students with concepts that are important to the field of systems integration, as well as a conceptual basis for understanding network architectures.

CNG 108 Network Analysis & Design

3 Credit Hours • 45 Contact Hours (Lecture)

Provides advanced instruction for networking professionals and students who grasp the basic concepts of networking but would like to understand methods used to analyze, design, and manage LAN's point-to-point networks. Exercises are geared toward learning techniques used to design and analyze networks.

CNG 121 Computer Technician I: A+

4 Credit Hours • 60 Contact Hours (Lecture)

Provides students with an in-depth look at personal computer hardware, introduces networking concepts, and covers operational procedures and troubleshooting, all of which are necessary for a successful entry-level computer service technician position. Provides extensive hands-on work with computer systems, PC setup and configuration, and basic maintenance and troubleshooting. This course helps prepare you for the first CompTIA A+ Exam.

CNG 122 Computer Technician II: A+

4 Credit Hours • 60 Contact Hours (Lecture)

Provides students with an in-depth look at Operating System support, maintenance, and troubleshooting, and an overview of hardware, security concepts, and interpersonal skills, all of which are necessary for a successful entry-level computer service technician position. Provides extensive hands-on work with Windows 2000 and/or XP, including using common GUI and command line tools, registry editing, System backup and Recovery, Networking, and O.S. Troubleshooting. This course helps prepare you for the CompTIA A+ 602 Exam..

CNG 132 Network Security Fundamentals

3 Credit Hours • 45 Contact Hours (Lecture)

Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 133 Network Security: Fire Walls and Intrusion Detection and Network Security

3 Credit Hours • 45 Contact Hours (Lecture)

Teaches students the basics of network firewall security. It covers basic installation techniques, discusses how to make an intelligent choice of firewall technology, and presents basic firewall troubleshooting.

CNG 257 Network Defense and Counter Measures

3 Credit Hours • 45 Contact Hours (Lecture)

Examines the tools, techniques and technologies used in the technical securing of information assets. This course provides in-depth information of the software and hardware components of Information Security and Assurance. Topics include firewall configurations, hardening Unix and NT servers, Web and distributed systems security and specific implementation of security modes and architectures. The curriculum maps to the Security Certified Network Professional (SCP) Network Defense and Countermeasures exam.

CNG 258 Digital Forensics

4 Credit Hours • 60 Contact Hours (Lecture)

Exposes the student to the field of digital computer forensics and investigation. This class provides the student with methods to properly conduct a digital forensics investigation including a discussion of ethics. Topics covered include fundamental concepts, history of computer forensics, file structures, data recovery techniques, computer forensic tools and analysis.

CNG 260 Cisco Network Associate I

5 Credit Hours • 75 Contact Hours (Lecture)

Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. Includes IP addressing and fundamentals of Ethernet concepts, media and operations.

CNG 261 Cisco Network Associate II

5 Credit Hours • 75 Contact Hours (Lecture)

Introduces the architecture, components, and operations of routers and switches.

CNG 262 Cisco Network Associate III

5 Credit Hours • 75 Contact Hours (Lecture)

Explores the architecture, components and operations of routers and switches in a large and more complex network with advanced functionality.

CNG 263 Cisco Network Associate IV

5 Credit Hours • 75 Contact Hours (Lecture)

Implements WAN technologies and network services required by converged applications in a complex switched and routed networks.

Computer Aided Drafting Courses**CAD 100 Print Reading for Computer Aided Drafting**

3 Credit Hours • 52.5 Contact Hours (30 Lecture, 22.5 Lecture/Lab Combination)

Covers linetype identification, use of lineweights, file management, prototype/template creation using the latest release of AutoCAD. Interpretation of industry standards in dimensioning, symbology, drawing notes, freehand sketching and reading working drawings. Industries discussed in this course are

architectural, engineering, design related, civil/survey, manufacturing, HVAC, and welding.

CAD 101 Computer Aided Drafting I

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Focuses on basic computer aided drafting skills using the latest release of CAD software. Includes file management, Cartesian coordinate system, drawing set-ups, drawing aids, layer usage, drawing geometric shapes, editing objects, array, text applications, basic dimensioning, and Help access.

CAD 102 Computer Aided Drafting II

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisites: CAD 101

Focuses on advanced computer aided drafting skills using the latest release of CAD software. Includes blocks and wblocks, polylines, multilines, polyline editing, advanced editing, editing with grips, hatching, isometric drawings, dimensions and dimension variables, paper space and viewports, templates, external references, and printing/plotting.

CAD 105 AutoCAD for Interiors

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisites: CSC 105, IND 100; IND 111 or concurrent enrollment

Provides an opportunity for the Interior Design student to obtain the basic skills necessary to operate Computer Aided Design (CAD) software. AutoCAD software is emphasized.

CAD 115 Sketchup

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Focuses on the understanding of basic concepts of the software program SketchUp. Students will learn how to draw and extrude building shapes, stairs, roofs, and interiors utilizing advanced modeling techniques.

CAD 153 Introduction to Pro Engineer/Basics

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: CAD 101

Introduces basic Pro/engineer software and its operations such as part creation, assembly creation and drawing creation. Pro/engineer is a 3D Parametric Solid Modeling program.

CAD 155 Pro Engineer/Advanced

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: CAD 153

Emphasizes advanced part creation, drawing manipulation, and assembly techniques using Pro/Engineer by parametric technologies.

CAD 201 Computer Aided Drafting/Custom

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisites: CAD 101, CAD 102

Focuses on program customization using the latest release of CAD software. Includes: Attribute Extraction, creation of Dynamic Blocks, customizing Shortcut Menus and Double Click Actions, customizing Tool Palettes, Ribbon Tabs and Panels, User Profiles and Workspaces, basic CAD programming, path options, Sheet Set Manager, and eTransmit.

CAD 202 Computer Aided Drafting/3D

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisites: CAD 101

Focuses on construction of three-dimensional objects using the latest release of CAD software. Includes mesh modeling, surface modeling, solid modeling, extrusions, Boolean operations, 3D editing, 3D views, rendering, materials and advanced lighting, walkthrough and flyby animations and 3D Solids to 2D Layouts.

CAD 215 Advanced CAD for Interiors

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: CAD 105, IND 111

Concentrated focus on three-dimensional visualization models and presentations for Interior Design application. Includes advanced three-dimensional CAD concepts to create photo real life images, animations, and virtual tours. Additionally, this course will educate the student in visualizing complex spatial designs as a means of enhancing the function and quality of interior spaces and interior furnishing components.

CAD 219 3DS Max

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Introduces 3D model creation and editing, rendering and animation using the AutoDesk 3DS Max software. Focuses on 3D geometry, texture mapping, lighting, camera placement, shading, photo-realistic rendering, animation techniques, and walk through animations.

CAD 220 Advanced 3DS MAX Character Modeling

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: CAD 219

Focuses on advanced 3D geometry and character construction, animation and rendering techniques using Autodesk 3D Max software. Emphasis will include 3D geometry manipulation, character/bone/biped constructions, animation and video post-production of 3D animations.

CAD 224 Revit Architecture

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: AEC 102, AEC 104, AEC 107, AEC 121

Provides students with the software application training in Autodesk Revit necessary to produce 3D architectural models and 3D drawings utilizing AIA standards.

CAD 225 AutoCAD Architecture (Software)

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Provides students with the software application training in Architectural construction drawings using industry standard software. Includes creating floorplans, sections, elevations and details necessary to produce 2D and 3D Architectural construction drawings.

CAD 227 Advanced Revit Architecture

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: CAD 224

This course focuses on the advanced applications of the Revit software. Includes Family Editing, Topographic Site Plans, Worksharing, Phases, Advanced Scheduling, Custom Annotation, and Presentation Techniques.

CAD 240 Inventor I/Autodesk

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Introduces basic Inventor applications of non-parametric modeling, three-dimensional parametric modeling and visualization & animation of 3D modeling. The student learns to construct, modify, and manage complex models in 3D space. Produces 2D drawing assemblies from 3D models.

CAD 255 SolidWorks/Mechanical

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Introduces basic non-parametric 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

CAD 259 Advanced Solidworks

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: CAD 255

This course focuses on the advanced applications of the parametric software Solidworks. Includes management of design data, advanced assembly and analysis of model creations and constraints, documentation of bill of materials and parts lists, rendering and animation and testing a model assembly.

CAD 262 3D Printing/Additive Manufacturing

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: CAD 255, CAD 259

Provides the student with the ability to blend the virtual and real design worlds together through the use of 3D Scanning, 3D CAD Modeling, and 3D Printing.

CAD 280 Internship

3 Credit Hours • 105 Contact Hours (15 Lecture, 90 Internship)

Prerequisites: Permission of instructor and CAD 100, CAD 101, CAD 102

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 direct guidance of the instructor.

Computer Information Systems Courses

CIS 101 Alternative Input/Output for Computers

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Focuses on teaching alternative methods for interacting with a computer. Individualized for each student, the course covers such programs as Dragon NaturallySpeaking, Dragon Dictate, or Job Access with Speech (JAWS). It is designed for students who have little or no previous computer experience.

CIS 102 Computer Assistive Technology

3 Credit Hours • 45 Contact Hours (Lecture)

Note: Must have faculty consent to enroll

Introduces assistive technology and alternative methods for utilization of computer systems. Depending upon student need or interest, the student selects the assistive technology or method. Options include voice recognition, screen readers, screen enlargement, keyboard modification, word predication, reading enhancement programs and alternative data entry methods.

CIS 104 Word Processing with Assistive Technology

3 Credit Hours • 45 Contact Hours (Lecture)

Note: Must have faculty consent to enroll

Provides training in the functions, features, and uses of assistive technology and alternative methods. Covers the introduction of standard word processing features needed for proper presentation of college or business papers and the methodology to successfully use the assistive technology/alternative method in continuing educational or employment environments.

CIS 107 Voice Recognition: Dragon

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Grading: S/U only

Teaches the basics of voice recognition software for word processing and other related office applications. Benefits include the reduction of repetitive stress injuries, increasing accuracy, and saving report time preparation.

CIS 110 Introduction to Computing Technology: (device)

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Introduces basic computing technology with an emphasis on document creation and storage. Use of technology for email, web surfing, and access to course materials is included.

CIS 115 Introduction to Computer Information Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on an overview of the needs for and roles of computer information systems. Emphasizes computer requirements in organizations, history, hardware functions, programming, systems development, and computer operations. Introduces computer applications.

CIS 118 Introduction to PC Applications

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to access the Internet.

CIS 120 Technology for Career Development

1 Credit Hour • 15 Contact Hours (Lecture)

Prepare students to actively pursue a career path. This course will emphasize awareness of career opportunities through the use of career assessment tools, academic advising and career professionals. It will provide students with skills assessment tools, professional development activities, and information for creating and maintaining an electronic career portfolio.

CIS 124 Introduction to Operating Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces concepts, terminology, and hands-on skills in the use of DOS and Windows. Emphasizes navigation, file manipulation, file creation, and troubleshooting.

CIS 128 Operating System: Using Macs

3 Credit Hours • 45 Contact Hours (Lecture)

Note: Adequate keyboarding skill is essential if you wish to complete assignments in a timely, efficient manner. Students may wish to enroll in BTE 100 Computer Keyboarding to develop keyboarding skill.

Introduces the functions and capabilities of an operating system, including configuring and modifying the operating system environment.

CIS 130 Introduction to Internet

1 Credit Hour • 15 Contact Hours (Lecture)

Enhances the student's knowledge of the Internet and its resources. Individuals learn terminology in dealing with the Internet. Includes privacy and copyright issues with information retrieved from the Internet. Students experience the use of e-commerce, multimedia, and e-mail. Explores searching the Internet and credibility of information obtained with searches.

CIS 131 Word Processing I

1 Credit Hour • 15 Contact Hours (Lecture)

Gives the student an introductory working knowledge of word processing. The student will create, edit, format, save, and print documents. The student will use spell check, grammar check, and thesaurus features. The student will format text, paragraphs, and pages, change margins and use the find and replace feature as well as create envelopes and labels.

CIS 132 Word Processing II

1 Credit Hour • 15 Contact Hours (Lecture)

Increases the student's working knowledge of word processing. In this module, the student will learn to use the merge function. The student will create multiple page reports using headers, footers, footnotes, endnotes, and page numbers. The student will create and format documents using columns and tables.

CIS 135 Complete PC Word Processing

3 Credit Hours • 45 Contact Hours (Lecture)

Explores a complete array of word processing skills. The skills needed to create, edit, format, and printing documents are covered. Other topics include character, paragraph, and page formats, the use of spelling checkers and thesaurus, hyphenation, tables, mail merge, document design, and graphics.

CIS 140 Microsoft Outlook

1 Credit Hour • 15 Contact Hours (Lecture)

Introduces the functions used in Microsoft Outlook including e-mail messages, calendar, contacts, tasks, journals, and notes.

CIS 141 PC Databases I

1 Credit Hour • 15 Contact Hours (Lecture)

Introduces the student to the functions of a database using selected software. It includes skills such as file creation, searches, sorts, simple editing and indexes.

CIS 145 Complete PC Database

3 Credit Hours • 45 Contact Hours (Lecture)

Explores a complete array of database skills. Includes table, query, form, and report creation and modification. Other topics include application integration and automation of database tasks within the database.

CIS 146 Database Application Development: Access

3 Credit Hours • 45 Contact Hours (Lecture)

Covers the PC database concepts necessary to create database applications. Includes programming, shared files, resource locking, and database recovery.

CIS 151 PC Spreadsheets I

1 Credit Hour • 15 Contact Hours (Lecture)

Introduces the student to concepts and applications of an electronic spreadsheet. Topics include creating a worksheet, developing a professional looking worksheet and creating charts.

CIS 152 PC Spreadsheets II

1 Credit Hour • 15 Contact Hours (Lecture)

Continues the concepts and applications of an electronic spreadsheet learned in the introduction class. Topics include working with lists, integrating appropriate software with other Windows programs, and working with multiple worksheets and workbooks.

CIS 155 PC Spreadsheet Concepts

3 Credit Hours • 45 Contact Hours (Lecture)

Exposes the student to a wide range of uses of the electronic spreadsheet with special emphasis on using it as a business tool. Includes fundamentals and terms, creating and saving workbooks, entering and using formulas, formatting, printing, multiple-page workbooks, creating charts, entering and using functions, managing lists, and simple macros.

CIS 161 Presentation Graphics I

1 Credit Hour • 15 Contact Hours (Lecture)

Introduces the development of presentation graphics materials including graphs, charts, illustrations, and diagrams. Emphasizes effective communication.

CIS 165 Complete Presentation Graphics

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on the development of presentation graphics materials including graphs, charts, illustrations, and diagrams. Emphasizes effective communication through computerized presentations. Covers features of the software and effective presentation techniques.

CIS 202 Automated Project Management: MS Project

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an in-depth exploration of project management concepts and techniques. Uses software to automate project management processes. Emphasizes critical thinking, goal setting, and communication with team members, management, and customers. Real-world scenarios will be used to create task lists, assign and level resources, and modify project files. Gantt charts, critical path methodology, PERT, project tracking and reporting will be utilized in the management of projects.

CIS 203 Technology for Career Success

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: CIS 120

Prepare students to transition into a career. This course will provide students with resources for career development and tools to succeed in a competitive labor market. Offers students an opportunity to build an employment focused electronic portfolio in preparation for career growth and lifelong learning after completing their program of study.

CIS 204 Customization of Assistive Technology

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CIS 104 or concurrent enrollment, and faculty consent

Provides training in the customization of computer assistive technology and alternative methods. Includes individualized set up features specific to the assistive technology or alternative method and the individual. Covers program features or methods needed for use in database programs, spreadsheets, email, and the internet. Examines individual macros and commands to enhance usage.

CIS 223 Linux

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CIS 124

Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of file system commands, and management of user and group permissions.

CIS 240 Database Design and Development

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language for databases.

CIS 243 Introduction to Structured Query Language (SQL)

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces students to Structured Query Language (SQL). Students learn to create database structures and store, retrieve and manipulate data in a relational database. Students create tables and views, use indexes, secure data, and develop stored procedures and triggers.

CIS 263 PC Help Desk Skills

3 Credit Hours • 45 Contact Hours (Lecture)

Enables the student to understand and develop appropriate help-desk techniques. Includes roles of help-desk personnel, and how to troubleshoot hardware and software problems.

CIS 267 Management of Information Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the concepts and techniques of managing computer-based information resources. Includes hardware, software, personnel, control techniques, and the placement and integration of information systems resources within the organization.

CIS 268 Systems Analysis & Design I

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the student to the materials, techniques, procedures, and human interrelations involved in developing computer information systems. Includes the systems approach, fact gathering techniques, forms design, input/output, file design, file organization, various charting techniques, system audits on controls, project management, implementation, and evaluation.

CIS 287 Cooperative Education

3 Credit Hours • 135 Contact Hours (Work Experience)

Provides students an opportunity to gain practical experience in applying their occupational skills and/or to develop specific skills in a practical work setting. The instructor works with the student to select an appropriate work site, establish learning objectives,

and to coordinate learning activities with the employer or work site supervisor.

CIS 288 Practicum

1 Credit Hour • 45 Contact Hours (Practicum)

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.

CIS 289 Capstone

3 Credit Hour • 45 Contact Hours (Lecture)

Serves as the capstone course for CIS majors. Incorporates projects that allow students to develop advanced techniques and assemble information from different courses. Most projects will include the creation of interactive application programs for the non-computer user and require research beyond the classroom to prepare the student for entry level employment in a variety of situations.

Computer Science Courses**CSC 105 Computer Literacy**

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces students to current technologies. Special focus on ensuring students become technologically competent and computer literate. Emphasis is placed on technology fundamentals and terminology through the evaluation of hardware and software. Provides students with a working knowledge of operating system use, file management and security. Introduces the internet as a research and communication tool. Application software is covered to ensure the fundamental computer skills for personal, academic and business use are obtained.

CSC 120 Problem Solving with (Software Package)

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 126 Game Design & Development

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Combines problem-solving techniques with computer game design and implementation to introduce the student to basic gaming and computer science concepts. Students design, implement, and test computer games using software that allows for basic game creation through a wide variety of game creation tools; no prior programming experience is required.

CSC 145 Programming Fundamentals

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

This course is a general introduction to computer programming using examples of structured and object-oriented programs. The emphasis is on the design and implementation of control structures in logically correct programs. Students create a set of programs using both console and graphical user interfaces. This course focuses on problem solving and various design tools such as UML, flowcharts, and pseudocode. Students apply these tools in the design of solution algorithms used to construct programs.

CSC 150 Visual Basic Programming: 6.0

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Introduces programming and applications development for the Microsoft Windows Programming environment using Visual Basic 6.0.

CSC 160 Computer Science I: (Language)

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: MAT 055

Introduces students to the discipline of computer science and programming. Algorithm development, data representation, logical expressions, sub-programs and input/output operations using a high-level programming language are covered. Intensive lab work outside of class time is required.

CSC 161 Computer Science II: (Language)

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: CSC 160

Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

CSC 220 Introduction to Microsoft Visual Basic.NET

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Provides students with the knowledge and skills needed to develop applications in Microsoft Visual Basic .NET for the Microsoft .NET platform. Focuses on user interfaces, program structure, language syntax, and implementation details. This is the first course in the Visual Basic .NET curriculum and serves as the entry point for other .NET courses.

CSC 225 Computer Architecture/Assembly Language Programming

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: CSC 160

Introduces concepts of computer architecture, functional logic, design, and computer arithmetic. Focuses on the mechanics of information transfer and control within a computer system. Includes symbolic programming techniques, implementing high level control structures, addressing modes and their relation to arrays, subprograms, parameters, linkage to high level languages, and the assembly process.

CSC 230 C Programming: Platform

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: CSC 160, MAT 121

Prepares students to be a better programmer using the C programming language. C is a mid-level language whose economy of expression and data manipulation features allows a programmer to deal with the computer at a low level. The goal is to learn skills that are usable in many languages and understand what is happening at the machine level. The student should already understand the control structures selection, iteration, and subroutines (functions/methods).

CSC 233 Object-Oriented Programming: (Language)

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: CSC 160

Provides students with the skills in Programming in an OOP language at an Advanced Level. It covers all syntactical components of an object Oriented language. Emphasizes inheritance, overloading, and polymorphism. Focuses on writing clear, properly structured, and well documented programs using Object-Oriented methodology. Large programs using multiple data structures will be written, preferably working in large groups.

CSC 236 C# Programming

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: CSC 160

Introduces the C# programming language. This course covers all syntactical components of the language including arrays, structures, methods and classes. Content will focus on writing clear, properly structured, and well-documented programs using object-oriented methodology, .NET Framework, and the Visual Studio environment.

CSC 240 Java Programming

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: CSC 160

Introduces the Java programming language and covers basic graphics, events/procedures, user interface, and libraries. Enables the student to write and execute a variety of Java programs. Incorporates Java Applets into HTML.

CSC 246 Mobile App Development: (Platform)

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: CSC 160 or CSC 240

Learn how to develop mobile apps using key features and frameworks. Students will learn application design and development using a mobile development platform software development kit (SDK) and corresponding programming language. Main features include: handling UI triggered and touch events, data management, simple and complex UI views, drawing, location and application settings.

CSC 267 Object-Oriented Analysis and Design

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CSC 160

Teaches the student practical methods for analyzing business problems and designing large-scale software solutions. Making use of object-oriented techniques, tools, and methodologies, with an in-depth focus on the Unified Modeling Language.

Computer Web-Based Courses**CWB 110 Complete Web Authoring**

3 Credit Hours • 45 Contact Hours (Lecture)

Explores the complete set of web authoring skills using HTML and/or other scripting languages. Includes links, backgrounds, controlling text and graphic placement, tables, image maps, frames, and forms.

CWB 125 Introduction to Scripting: (Language)

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

This course introduces the student to the more common scripting languages used in web development. This allows for the development of dynamic, interactive and responsive web pages. Both client-side and server-side scripting is introduced. Using topics learned in this course, the student will be able to develop web pages that look, feel and have the usability of desktop applications.

CWB 130 Web Editing Tools

3 Credit Hours • 45 Contact Hours (Lecture)

Teaches the use of tools for Web page design and development. These tools are designed to make the creation of Web pages easy and consistent. With the use of editing tools, students will be able to build Web pages making use of forms, tables, frames, templates, Cascading Style Sheets (CSS), and layers. The student will also be able to easily publish and manage a Web site once it is created.

CWB 164 Structured Information Creation: (Language)

3 Credit Hours • 45 Contact Hours (Lecture)

Explores the complete set of web authoring skills using a structured web information language and/or other scripting languages. Course content also includes links, backgrounds, controlling text and graphic placement, tables, image maps, frames and form.

CWB 221 Technology Foundations for E-Commerce

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the student with thorough knowledge of e-commerce architecture, relational database management systems, and HTML and Network fundamentals.

Criminal Justice Courses

CRJ 110 Introduction to Criminal Justice: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces students to the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined.

CRJ 111 Substantive Criminal Law

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CRJ 110

Teaches legal definitions of crime, purposes and functions of the law, historical foundations, and the limits of the criminal law.

CRJ 112 Procedural Criminal Law

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CRJ 110

Covers constitutional and procedural considerations affecting arrest, search and seizure, post-conviction treatment, origin, development, philosophy, and constitutional basis of evidence. Focuses on degrees of evidence and rules governing admissibility, judicial decisions interpreting individual rights, and an analysis of case studies from arrest through final appeal.

CRJ 125 Policing Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Examines policing in the United States, including: historical foundations, emerging issues, and the relationship between law enforcement and the community. The various types of law enforcement agencies, their administrative practices, and the behavior of those involved in the delivery of police services are examined from the perspective of democratic values, racial and ethnic diversity, and societal perceptions of police effectiveness. Career requirements, including current and future trends, are also presented.

CRJ 127 Crime Scene Investigation

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Focuses on basic procedures in crime scene management to include photography and preparing initial reports and sketches. Includes processing evidence and related criminalistic procedures. Covers interviewing suspects, witnesses and victims to include the recording of identifications and descriptions. Incorporates lab and lecture.

CRJ 135 Judicial Function

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CRJ 110

Examines the criminal process with an analysis of the major judicial decision-makers, i.e., prosecutors, defense attorneys, judges, and the discretionary aspects of adjudication.

CRJ 145 Correctional Process

3 Credit Hours • 45 Contact Hours (Lecture)

Examines the history and total correctional process from law enforcement through the administration of justice, probation, prisons, correctional institutions, and parole. Also examines the principles, theories, phenomena and problems of the crime, society, and the criminal justice system from the perspective of criminology and the criminal justice system in general. Emphasizes the role of sociology and other interdisciplinary approaches to the field of corrections and society's response.

CRJ 146 Community Based Corrections

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces an analysis of community based correctional programs and procedures. Emphasizes the environment and the relationship to public safety, reintegration, and punishment.

CRJ 205 Principles of Criminal Law

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on common law and statutory law crimes, the Model Penal Code, elements defining crimes and penalties, defenses to criminal accusations, and definitions and distinctions between criminal and civil law.

CRJ 209 Criminal Investigation I

3 Credit Hours • 45 Contact Hours (Lecture)

Covers the function of the preliminary investigation at a crime scene to include securing the scene, crime scene searchers, police drawings, and recognition and collection of evidence.

CRJ 210 Constitutional Law

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on the powers of government as they are allocated and defined by the United States Constitution. Includes intensive analysis of United States Supreme Court decisions.

CRJ 211 Criminal Investigation II

3 Credit Hours • 45 Contact Hours (Lecture)

Builds on CRJ 209 with focus on follow-up investigation including an examination of death in all its aspects.

CRJ 212 Criminal Investigation III

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: CRJ 209

Focuses on an in-depth study of the principles of conducting a complete and systematic interview and/or interrogation. Examines the psychological dynamics of persons falsifying information. Includes confessions, undercover operations, surveillance techniques, and survival skills unique to undercover operants.

CRJ 216 Juvenile Law & Procedures

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on an in-depth analysis of the socio-legal operation of the Juvenile Justice System emphasizing the substantive and due process rights of minors. Includes analysis of legal reasoning underlying the juvenile law as it operates at all levels of government.

CRJ 220 Human Relations & Social Conflict

3 Credit Hours • 45 Contact Hours (Lecture)

Highlights the environmental, organizational, and socio-psychological dimensions of social control. Includes the study of individual attitudes, beliefs, and behavior involved in role conflicts, community relations, and conflict management in the social structure.

CRJ 225 Crisis Intervention

3 Credit Hours • 45 Contact Hours (Lecture)

Provides information and application of crisis theories in working with diverse populations. Examines the interventionist role.

CRJ 230 Criminology

3 Credit Hours • 45 Contact Hours (Lecture)

Examines the question of crime causation from legal, social, political, psychological, and theoretical perspectives. Covers the history and development of criminology.

CRJ 231 Introduction to Forensic Science and Criminalistics

3 Credit Hours • 45 Contact Hours (Lecture)

Exploration of the fundamentals of forensic science that are essential for gathering evidence at the crime scene and analyzing it in the crime laboratory.

CRJ 235 Delinquent Behavior

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on the adolescent who violates social and legal norms and the consequences for the individual and society. Emphasizes the social and psychological factors influencing individual delinquent patterns.

CRJ 236 Criminal Justice Research Methods

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces and applies methods for criminal justice and criminology with an emphasis on the scientific method and the role of empirical inquiry into criminal justice and criminology. This course will include the study of methodologies of data collection and analysis, the logic of research, the role of theory, measurement, sampling and research designs. Field research and the professional norms and ethics of criminal justice and criminology research will also be demonstrated.

CRJ 245 Interview & Interrogation

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on the study of technical and legal approaches used in gathering desired information from victims, witnesses, and suspects. Examines the fundamental characteristics of questioning and the use of psychological influences.

CRJ 257 Victimology

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the student to the role the crime victim plays in the criminal justice system. The traditional response that a crime victim receives from the system will be studied and the psychological, emotional and financial impact these responses have on victimization will be analyzed.

CRJ 264 Practical Crime Scene Investigation

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CRJ 209, CRJ 211, LEA 260

Introduces the investigation of death from the edico-legal standpoint. Discusses all aspects of an investigation from the initial findings to identification of the deceased and the determination of cause and time of death. Includes the follow-up investigation and the preparation and presentation of evidence for the criminal trial.

CRJ 268 Criminal Profiling

3 Credit Hours • 45 Contact Hours (Lecture)

Examines theories of crime causation with respect to crimes committed by the most violent offenders in society. Identifies research done, and the history of Criminal Personality Profiling, beginning with the earliest explanations through the beliefs of modern science, as well as psychological and sociological explanations. Identifies various known offenders, examines their backgrounds, and explains how current research into homicide, sexual offenses and serial killers can provide clues to the identity of unknown offenders.

CRJ 280 Internship

3 Credit Hours • 135 Contact Hours (Internship)

Provides placement in the criminal justice field to integrate theory with practice.

Culinary Arts Courses**CUA 100 Culinary Program Fundamentals**

3 Credit Hours • 45 Contact Hours (Lecture)

Trains students in the basic fundamentals of the culinary field. The course will include student overview, training in areas of Management, Culinary Arts, Baking & Pastry. Student will be trained in all areas in order to be successful in both Lecture and Lab courses. Training will include program overviews, safety & sanitation fundamentals, culinary math skills, culinary vocabulary, lab requirements, using online training methods, competitions, basic knife skills, equipment identification and proper usage, professionalism, food service history, kitchen organization, basic principles of cooking, food science, study skills, proper food storage techniques, recipes, cost management, library resources and student learning organizations, scholarships and culinary career opportunities. Students must complete this course with a grade C or higher, prior to advancing in the program.

CUA 101 Food Safety & Sanitation

2 Credit Hours • 30 Contact Hours (Lecture)

Introduces the student to the basic rules of sanitation, food-borne illnesses, safe food temperatures, safe food handling techniques, the HACCP Program, pest control procedures, and local/state health rules and regulations for food service operations. At the completion of the course students take a nationally recognized test from the Education Foundation of the National Restaurant Association. If passed with a score of 75% or more, students receive a Certificate of from the Education Foundation.

CUA 105 Food Service Concepts & Management Skills

3 Credit Hours • 45 Contact Hours (Lecture)

Demonstrates the use of management skills training in the food service industry by use of student interaction research, and also demonstrates the various styles of menu development. Includes basic responsibility for food service personnel in all kitchen positions with emphasis on advertising vs. publicity, job analysis, description specifications, and duty list as related to recruiting and hiring process. Covers application, interview techniques, training, and hiring process. Incorporates preparation of menus for different styles of food service concept establishments.

CUA 115 Introduction to Sustainable Cuisine

2 Credit Hours • 30 Contact Hours (Lecture)

Covers an overview of the profound impacts human food production systems have on the environment and society. Focuses on meeting present food needs without compromising the ability of future generations to meet their own. Topics emphasized include the connections among agriculture, food production, ecology, ethics, nutrition, health, cuisine and foodservice operations within the framework of sustainability.

CUA 120 Wines & Spirits

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Enables students to examine types of beverages and equipment including wines, beers, spirits, bar equipment, and staffing. Covers profitability, marketing, federal and local laws, and service. Focuses on the history of making and processing wines, spirits, and beers.

CUA 125 Introduction to Foods

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 100, CUA 101

Provides students with the fundamental principles and practices of a commercial kitchen, including safety and sanitation applications, use and care of equipment, tools, utensils and knives, recipe use and conversion, organization of work, and basic cooking methods. Focuses on the fundamental principles and production of stocks, soups, sauces, gravies, and thickening agents. Principles of cold food and non-alcoholic beverage preparation and production in a commercial kitchen. Basic cold food decorative work such as fruit and vegetable garnishes and carvings, terrines, and hors d'oeuvres. Emphasizes the effects of seasonings and cooking methods of vegetable products and basic hot food preparation. Students prepare breakfast orders similar to those ordered in restaurants with egg cookery and dairy products emphasized.

CUA 127 Soups, Sauces, & Consommés

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 100, CUA 101, CUA 125

Covers the preparation of the five mother sauces and small-derived sauces. Enables students to prepare stocks, consommés, emulsified sauces, clear soups, pureed soups, chowders, national, and cream soups in a commercial kitchen. Introduces gravies and sauce garnishing.

CUA 129 Center of the Plate

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 100, CUA 101, CUA 125

Enables the student to plan and prepare a variety of complete meals in a commercial kitchen, focusing on center of the plate

entrees including meat, poultry, seafood and vegetarian items. Meat, poultry and seafood handling and preparation, including basic forms and cuts, principles used for selecting products and appropriate cooking methods are emphasized. Vegetarian entrees are also covered, including methods for preparation and cooking of various types of potatoes, rice, legumes, pastas, casseroles and grain products with special attention given to complimentary proteins.

CUA 136 Alcohol & Bartending Management

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisites: CUA 100, CUA 101

Prepares students for the preparation and service of alcoholic beverages. Focuses on mixology procedures, wine and champagne service, purchasing and storage procedures, cost controls, customer relations, legal responsibilities of lounge operations and ServSafe alcohol practices.

CUA 145 Introduction to Baking

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 100, CUA 101

Provides the student with the fundamentals of baking terminology, principles of baking, and the characteristics of the functions of the main ingredients that is used in bakery production. Orients student to use commercial equipment, tools, and provides the student with the fundamentals of basic yeast-raised production and quick breads, white bread, rolls, variety grain breads, specialty breads, sweet yeast-raised products, and quick bread, fundamentals of basic cake, pie, pastry, and cookie production. Enables the student to produce a variety of cakes, pies, pastries, cookies, and assorted dessert items in a commercial kitchen.

CUA 150 Baking: Decorating & Presentation

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 145

Examines the preparation and production of cakes, pastries, different styles of decorating, commercial equipment, and types of products used for decoration. Covers the use of plate painting, national products, and designing show pieces.

CUA 151 Baking: Intermediate Bread Preparation

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 145

Focuses on preparation of types of bread products including French, rye, wheat, brioche, and croissants. Enables the student to demonstrate different styles of presentation including rolling, braiding, cloverleaf, parker-house, single knot, butter-flake, comb, and wreath shape. Examines production steps, ingredients, and equipment that apply to course training.

CUA 152 Individual Fancy Dessert Production

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 145

Focuses on the preparation and decoration of individual dessert items. Covers the preparation of cream horns, napoleons, éclairs, cream puffs, marzipan fruits, marzipan sculptures, tarts, flambéed desserts, international desserts, pastry shells, pulled sugar, spun sugar, and individual chocolate decorations. Students research and locate dessert menus/recipes to be used in lab production.

CUA 153 Confectionaries & Petit Fours

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 145

Introduces the art of confections, individual chocolates and petit four cakes production and presentation. Students will learn proper candy production including high altitude preparation, use of chocolate molds, poured candies, centers, taffy, brittle, flavored chocolates, hard rock candies, and various petit fours and garnishes.

CUA 154 Introduction to the Business of Catering

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: CUA 100, CUA 101, CUA 125

Provides students with an overview of the catering industry. Special attention will be given to catering from a customer's perspective. Students completing this course should be able to plan and implement a variety of catering functions. Included in the course will be some experiential learning opportunities as a result of participation in actual college catered functions on campus.

CUA 156 Nutrition for the Hospitality Professional

3 Credit Hours • 45 Contact Hours (Lecture)

Provides students with the fundamentals of human nutrition. Focuses on the nutritional needs of humans throughout their life cycle as well as those with special dietary needs. Students may take a nationally recognized test from the Educational Foundation of the National Restaurant Association.

CUA 157 Menu Planning

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the student to planning menus and integrating them into foodservice operations. Equips the student with a working knowledge of the function, mechanics, and results achieved by the menu. Provides an overview of the existing and growing foodservice industry as seen through the menu.

CUA 161 Advanced Cake Decorating – Wedding Cakes

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 150

Demonstrates a variety of wedding cake decorating techniques. We will learn to work with gum paste, rolled fondant, royal icing. Student will complete a two-tier wedding cake.

CUA 190 Dining Room Management

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Focuses on service related skills and knowledge used in the foodservice industry. Enables the student, through a laboratory setting, to practice skills and acquire the knowledge of "front of the house" operations common to dining rooms in the industry. Includes table setting, side work, serving customers, operating a Point-of-Sale system, hosting and supervising dining room personnel. At the completion of the class, students are able to supervise the operation of a sit-down dining operation. Meets a minimum of 90 hours.

CUA 210 Advanced Cuisine & Gardé Manger

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 129

Focuses on the preparation of food display items for buffets and banquets such as fancy garnishes, fruit and vegetable carvings, canapés, party trays, etc. Includes pates, galantines, terrines, and choud froid items. Incorporates creation of food artistry show pieces meeting competition guidelines developed by the American Culinary Federation. Covers the preparation of a regional, ethnic, or cultural culinary presentation based upon personal research.

CUA 233 Advanced Line Prep & Cookery

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 129

Focuses on preparation of complete meals to order. Emphasizes cooking center of the plate items such as meat, fish, seafood, and poultry as well as accompaniment foods such as starches and vegetables. Enables the student to prepare sauces, entrée salads, edible garnishes, and meals determined by the menu prepared for a dining room setting. Emphasizes line supervisor, sauté cook, pantry cook, cook's helper, and runner responsibilities.

CUA 236 Advanced Baking

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 151, CUA 161

Provides students the opportunity to refine their baking skills in the areas of desserts, yeast breads, garnishing, and presentation of baked products. Enables the student to bake, garnish and present a variety of baked goods. These products are prepared and displayed for the public in various locations in the college.

CUA 245 International Cuisine

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 127, CUA 129

Introduces full meal preparation of non-traditional international cuisine. Ethnic ingredients and meals from India, Thailand, Greece, Morocco, Africa, South America and Ecuador will be introduced.

CUA 255 Supervision in the Hospitality Industry

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CUA 105

Provides the current/future foodservice operator, manager, or supervisor with a solid foundation for developing communication skills, planning and decision-making skills, and skills for creating a goal-oriented environment utilizing management principles in the selection, training, evaluating, delegating, motivating, rewarding, and disciplining employees. Stresses skills for success through people development.

CUA 256 Marketing in the Hospitality Industry

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CUA 105

Involves the student in a study of foodservice marketing including marketing planning, use of marketing information in the foodservice operation, marketing research, understanding foodservice customers, advertising and promotion, hospitality group sales, and menu design and pricing strategies. At the conclusion of this course, the student will take a nationally recognized test and receive a certificate from the Education Foundation of the National Restaurant Association.

CUA 261 Cost Controls

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CUA 105

Provides students with the opportunity to learn the types of costs usually found in the food service industry. Students will learn to apply control techniques to a variety of costs and sales. They will also learn to interpret a variety of financial reports which reflect the relationship between costs and income. Students may take the national Cost Controls test from the National Restaurant Association Education Foundation. If they pass the test with 75 percent or higher, they will receive a national certificate for the course.

CUA 262 Purchasing for the Hospitality Industry

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CUA 105

Emphasizes controlling costs as applied to the selection and procurement of food and supply items. Covers selection and procurement of food and supplies, supplier selection, and distribution systems including the forces affecting them. Students will take a nationally recognized test and may receive a certificate from the Education Foundation, the educational arm of the National Restaurant Association.

CUA 263 Legal Aspects of Hospitality Management

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CUA 105

Provides the student with an overview of legal subjects relevant to foodservice. Covers Federal, State, and Local regulations, patron civil rights, liability and safety, laws relating to employment, security, contracts, property rights, franchising, bankruptcy and reorganization, court system and out-of-court settlements, and choosing and managing an attorney.

CUA 264 Sustainable Food Service Operations

3 Credit Hours • 45 Contact Hours (Lecture)

Students will examine the issues, challenges and opportunities in establishing a sustainable foodservice operation including: economic feasibility, marketing, sourcing of products, seasonal/local menus, minimizing on-site consumption and waste of resources. Students will identify actions that will improve or diminish sustainability in a foodservice operation and how to perform cost/benefit analysis of these actions to maximize effectiveness.

CUA 268 Vegetarian and Dietary Cuisine

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 125, CUA 156

Introduces the student to dietary and environmental sustainability practices to meet the future needs of the food service industry. Employment opportunities include culinary and management careers in the health care industry, institutional operations with special dietary needs, operations that serve high risk populations, and operations that utilize sustainability practices. Students will learn skills and understanding in human nutrition, menu development, cultural cuisines, sustainability practices, dietary cuisine, environmental impacts and concerns, and using the farm to fork concept within the industry. Examinations will be given throughout the program.

CUA 269 Dietary Baking

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: CUA 145

Provide the student with the development and production of bakery products that focus on common food allergens, intolerances and health aspects. Students will prepare a variety of gluten free bakery products that address celiac disease, and other products that address common health related issues. There will be an emphasis in the use of product substitutions including: fats, sweeteners, and dairy in baking. Students will also analyze the nutritive value of ingredient refinement.

CUA 281 Internship

4 Credit Hours • 180 Contact Hours (Internship)

Prerequisite: CUA 127

Places students in an actual work situation where they participate in the operation of a foodservice establishment. Hours of work are arranged by the site supervisor and the intern. The number of hours required are determined by the number of credits the course carries.

Dance Courses**DAN 105 Hip Hop Dance**

1 Credit Hour • 30 Contact Hours (Lab)

Consists of basic traditional jazz and ballet movements. Warm-up exercises will include body toning and stretching. Students will learn diagonal step combinations leading to hip-hop dance routines.

DAN 106 Hip Hop Dance II

1 Credit Hour • 30 Contact Hours (Lab)

Includes traditional jazz, ballet and street dancing techniques as well as warm-up exercises such as body toning and stretching. Students will learn diagonal and center step combinations leading to hip-hop dance routines.

DAN 111 Modern Dance I

1 Credit Hour • 30 Contact Hours (Lab)

Introduces basic concepts and skills of modern dance. Focuses on technique work to increase strength, flexibility, endurance, coordination, rhythm, and spatial awareness. Explores dance as a tool for communication and dance as an art form.

DAN 112 Modern Dance II

2 Credit Hours • 60 Contact Hours (Lab)

Includes a more in-depth study of modern dance concepts as well as more specific techniques of modern dance choreography. Focuses on more advanced technique work and more emphasis on improvisation.

DAN 113 Modern Dance III

2 Credit Hours • 60 Contact Hours (Lab)

Builds on the skills learned in DAN 112 with more advanced technique work. Enables students to increase knowledge of specific modern choreographers' techniques and develop more experience with movement improvisation.

DAN 114 Modern Dance IV

2 Credit Hours • 60 Contact Hours (Lab)

Teaches a variety of modern dance techniques and experimentation with movement styles. Attention is placed on the performance elements of dance technique. This intermediate/advanced modern dance class is designed to challenge a dance student.

DAN 117 Salsa I

1 Credit Hour • 30 Contact Hours (Lab)

Introduces the beginning dancer to popular Salsa steps and dance combinations. This course includes basic partnering concepts and techniques. Dancers will explore rhythm, proper body alignment and music recognition. A partner is not required for this course.

DAN 121 Jazz I

1 Credit Hour • 30 Contact Hours (Lab)

Introduces the basic techniques and vocabulary of jazz dance and the basic elements of dance. Focuses on movement oriented dance, comprised of warm-up exercises, center combinations, traveling combinations, and cool down.

DAN 122 Jazz II

2 Credit Hours • 60 Contact Hours (Lab)

Continues Jazz I with an increased knowledge of jazz dance. Enables the student to work at an intermediate level with a basic understanding of body alignment, balance, and musicality.

DAN 123 Jazz III

2 Credit Hours • 60 Contact Hours (Lab)

Builds on skills learned in DAN 122 and incorporates work at an intermediate/advanced level. Expands on jazz dance technique through more challenging movement combinations. Requires knowledge of the learned basics in dance.

DAN 124 Jazz IV

2 Credit Hours • 60 Contact Hours (Lab)

Builds on skills learned in DAN 123 and incorporates work at a more advanced level. Emphasizes more challenging movement combinations and performance techniques.

DAN 125 History of Dance I: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces the history of dance as a theatre or performing art. Examines dance from Classical Greece through the Renaissance, including court and classical ballet to modern dance with African and Caribbean influences.

DAN 129 Introduction to Dance

1 Credit Hour • 30 Contact Hours (Lab)

Introduces the art of dance and movement expression from a variety of viewpoints: historical, cultural, aesthetic, critical, and creative. Examines the art and craft of dance as an expression of culture and community while exploring personal expression, imagery, dance techniques, and performance qualities.

DAN 130 Dance Sampler

1 Credit Hour • 30 Contact Hours (Lab)

Introduces the beginning dancer to popular dances through a social dance sampler in Salsa, Swing, and Country Western Dance technique, footwork, body posturing, rhythms, and dance floor etiquette. Examines a variety of dances such as Salsa's Mambo, Cha-Cha, and Rumba; Swing's Lindy Hop (jitterbug); and Country Western's Two Step, Cowboy Waltz, Cotton-Eyed Joe, and various Country Western line dances.

DAN 131 Ballet I

1 Credit Hour • 30 Contact Hours (Lab)

Introduces the basic techniques of ballet, which are built upon knowledge of ballet terminology, fundamental exercises, and the basic elements of dance. Focuses on movement-oriented dance, comprised of stretching, barre warm-up exercises, simple terre-à-terre and jumping steps, and basic extended positions.

DAN 132 Ballet II

2 Credit Hours • 60 Contact Hours (Lab)

Continues Ballet I and emphasizes ballet terminology, fundamental exercises, and the basic elements of dance. Focuses on an intermediate level within the basic structure of the ballet class.

DAN 133 Ballet III

2 Credit Hours • 60 Contact Hours (Lab)

Builds on Ballet II at an intermediate/advanced level. Continues learning within the basic structure of a ballet class while increasing the level of skills through more experience with challenging movement combinations.

DAN 134 Ballet IV

2 Credit Hours • 60 Contact Hours (Lab)

Consists of traditional and contemporary ballet technique with focus on correct body alignment and kinesiology for an increased physical performance. This is not a pointe class.

DAN 141 Ballroom Dance

1 Credit Hour • 30 Contact Hours (Lab)

Introduces the basic terminology, techniques, and routines of several dances from a specific country or region. Focuses on the music, costumes, and customs related to the dances of study. Partners are not required.

DAN 142 Ballroom Dance II

1 Credit Hour • 30 Contact Hours (Lab)

Continues DAN 141 with focus on regional dances, customs, and rhythms. Partners are not required.

DAN 143 Tap I

1 Credit Hour • 30 Contact Hours (Lab)

Introduces basic tap dance movements and techniques. The shuffle, ball change, brush, flap heel drop, stomp, and stamp step are covered.

DAN 144 Tap II

1 Credit Hour • 30 Contact Hours (Lab)

Prerequisite: DAN 143

Continues with the concepts introduced in Tap I including more advanced versions of time steps, drawbacks, and bomber shays. Introduces wings and syncopated pull-backs. Focuses on intricate rhythm patterns.

DAN 151 Belly Dance I

1 Credit Hour • 30 Contact Hours (Lab)

Presents belly dance - the oldest dance form known to humankind and a celebration of life! Emphasizes developing balance and enables the student to perform a belly dance and learn the history of belly dance and costuming techniques.

DAN 152 Belly Dance II

1 Credit Hour • 30 Contact Hours (Lab)

Continues Belly Dance I (DAN 151) with emphasis on coordination and balance and additional techniques. Includes costume design.

DAN 161 African Dance I

1 Credit Hour • 30 Contact Hours (Lab)

Learning traditional dances, rhythms and songs from Guinea West African and surrounding areas should be expected. Students will explore the functions of these dances in relation to contemporary culture. Class warm-up includes working on core strength, flexibility, stamina and rhythmic sensibility. Clothing for the class should be loose. Students may wear a lappa (cloth wrapped around the waist). All dancing is performed barefoot.

DAN 211 Dance Composition

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Focuses on principles of choreography and development of individual expressive style.

DAN 221 Dance Performance I

2 Credit Hours • 60 Contact Hours (Lab)

Note: Must have faculty consent through audition

Enables students to rehearse and perform dances for community concerts after selection through audition. Covers warm-up/advanced technique, rehearsals, and cool down in a dance company atmosphere. Focuses on choreography for original ballet, modern dance, and jazz dance works.

DAN 222 Dance Performance II

2 Credit Hours • 60 Contact Hours (Lab)

Prerequisite: DAN 221

Continues Dance Performance class offering more opportunities for students to perform in different settings.

DAN 224 Dance for Musical Theatre I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Introduces students to dance within the context of musical theatre. Enables the student to practice non-verbal communication and expressive movement techniques.

DAN 225 Dance for Musical Theatre II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: DAN 224

Continues DAN 224 with more emphasis on performance.

DAN 226 Pointe

1 Credit Hour • 30 Contact Hours (Lab)

Note: Must have Instructor permission

Emphasizes elementary pointe technique. Most work will be done at the barre stressing the muscular development of the foot, which is necessary before more advanced work can be undertaken.

DAN 227 Pointe II

1 Credit Hour • 30 Contact Hours (Lab)

Note: Must have Instructor permission

Offers a continuation of DAN 226 Pointe I, with emphasis on barre work to strengthen the foot and ankle. Students will gain knowledge and skill leading to the intermediate level.

DAN 231 Jazz Dance Performance I

2 Credit Hours • 60 Contact Hours (Lab)

Enables students to rehearse and perform in a pre-professional jazz dance company setting. Students will rehearse and perform a myriad of jazz dance pieces during the course. Students will perform a minimum of once a semester in a concert setting.

DAN 251 Belly Dance III

1 Credit Hour • 30 Contact Hours (Lab)

Continues Belly Dance II (DAN 152) with emphasis on coordination and balance and additional techniques. Includes costume design, fitness, and the emphasis of learning advanced dance techniques to perform professionally.

DAN 253 Belly Dance Performance I

1 Credit Hour • 30 Contact Hours (Lab)

Enables students to participate through rehearsal and performance in a pre-professional Belly Dance performance ensemble. The course will cover the cultural component of belly dance, the business of being a professional belly dance performer

in addition to learning various styles of belly dance. Students will perform in various venues including a formal concert setting.

Deaf Prep Courses**DEP 011 Deaf Prep American Sign Language I**

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Allows the student to study the Deaf culture. Focuses on discussion of experiences of the Deaf or hard of hearing person while growing up. Covers the values, traditions, and norms of both Deaf and hearing people.

DEP 012 Deaf Prep American Sign Language II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Discusses diversity of Deaf people in general. Examines the lives of Deaf people from past and present. Enables the student to compare people from different countries and their sign languages. Incorporates volunteer time at one of the Deaf centers.

DEP 013 Deaf Prep American Sign Language III

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Focuses on expressive skills development. Involves students in activities that require observing different Deaf actors and poets. Enables the student to develop skills to act or tell stories in ASL to several kinds of audiences.

DEP 014 Deaf Prep American Sign Language IV

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Allows the Deaf students to study their own language in depth. Involves analyzing different components of ASL grammar and developing the understanding of each component and its functions. Emphasizes improving and maintaining their signing skills.

DEP 021 Deaf Prep Critical Thinking I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Serves as the first course in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. It is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Focuses on Feuerstein Instrumental Enrichment program as well as other activities, games, and projects. Is highly individualized and assignments vary according to student's understanding and progress.

DEP 022 Deaf Prep Critical Thinking II

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Serves as the second course for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Focuses on Feuerstein Instrumental Enrichment program as well as other activities, games, and projects. Is highly individualized and assignments vary according to student's understanding and progress.

DEP 023 Deaf Prep Critical Thinking III

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Serves as the third course in the sequence and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Focuses on Feuerstein Instrumental Enrichment program as well as other activities, games, and projects. Is highly individualized and assignments vary according to student's understanding and progress.

DEP 024 Deaf Prep Critical Thinking IV

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Serves as the fourth course in a sequence and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Focuses on Feuerstein Instrumental Enrichment program as well as other activities, games, and projects. Is highly

individualized and assignments vary according to student's understanding and progress.

DEP 031 Deaf Prep English I

5 Credit Hours • 112.5 Contact Hours (Lecture/Lab Combination)

Serves as the first in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Includes reading and writing of English and comparison of English and ASL. Placement is based upon students' abilities and needs and the results of pretesting. Incorporates highly individualized activities, projects, and assignments.

DEP 032 Deaf Prep English II

5 Credit Hours • 112.5 Contact Hours (Lecture/Lab Combination)

Serves as the second in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and it targets Deaf students who are not academically ready for developmental classes. Includes reading and writing of English and comparison of English and ASL. Placement is based upon students' abilities and needs and the results of pretesting. Incorporates highly individualized activities, projects, and assignments.

DEP 033 Deaf Prep English III

5 Credit Hours • 112.5 Contact Hours (Lecture/Lab Combination)

Serves as the third in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Includes reading and writing of English and comparison of English and ASL. Placement is based upon students' abilities and needs and the results of pretesting. Incorporates highly individualized activities, projects, and assignments.

DEP 034 Deaf Prep English IV

5 Credit Hours • 112.5 Contact Hours (Lecture/Lab Combination)

Serves as the fourth in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Includes reading and writing of English and comparison of English and ASL. Placement is based upon students' abilities and needs and the results of pretesting. Incorporates highly individualized activities, projects, and assignments.

DEP 041 Deaf Prep Math I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Serves as the first in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Includes whole number arithmetic as well as operations with fractions and decimals. Placement is based upon students' abilities and needs and the results of pretesting. Incorporates highly individualized activities, projects, and assignments.

DEP 042 Deaf Prep Math II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Serves as the second in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Includes whole number arithmetic as well as operations with fractions and decimals. Placement is based upon students' abilities and needs and the results of pretesting. Incorporates highly individualized activities, projects, and assignments.

DEP 043 Deaf Prep Math III

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Serves as the third in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Includes whole number arithmetic as well as operations with fractions and decimals. Placement is based upon students' abilities and needs and the results of pretesting. Incorporates highly individualized activities, projects, and assignments.

DEP 044 Deaf Prep Math IV

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Serves as the fourth in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who are not academically ready for developmental classes. Includes whole number arithmetic as well as operations with fractions and decimals. Placement is based upon students' abilities and needs and the results of pretesting. Incorporates highly individualized activities, projects, and assignments.

DEP 051 Deaf Prep Resource Management I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Serves as the first in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who need to improve their life skills. Enables the student to recognize and utilize resources within themselves, their close relationships, their communities, and their world. Class activities may include field trips, guest lecturers, and special projects. These classes are highly individualized and assignments vary according to students' understanding and progress.

DEP 052 Deaf Prep Resource Management II

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Serves as the second in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who need to improve their life skills. Enables the student to recognize and utilize resources within themselves, their close relationships, their communities, and their world. Class activities may include field trips, guest lecturers, and special projects. These classes are highly individualized and assignments vary according to students' understanding and progress.

DEP 053 Deaf Prep Resource Management III

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Serves as the third in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who need to improve their life skills. Enables the student to recognize and utilize resources within themselves, their close relationships, their communities, and their world. Class activities may include field trips, guest lecturers, and special projects. These classes are highly individualized and assignments vary according to students' understanding and progress.

DEP 054 Deaf Prep Resource Management IV

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Serves as the fourth in a sequence for students enrolled in the Deaf Prep Program and is taught in American Sign Language. Is remedial in nature and targets Deaf students who need to improve their life skills. Enables the student to recognize and utilize resources within themselves, their close relationships, their communities, and their world. Class activities may include field trips, guest lecturers, and special projects. These classes are highly individualized and assignments vary according to students' understanding and progress.

DEP 061 Deaf Prep Study Skills I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Allows students to develop their skills in goal setting, time management, and test taking. Addresses effectiveness of proper school tools, attitudes, and behaviors. Develops awareness of the availability of college resources such as interpreters, note takers, mentors, libraries, tutoring centers, and computer labs.

DEP 062 Deaf Prep Study Skills II

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Allows students to develop their skills in goal setting, time management, and test taking. Addresses effectiveness of proper school tools, attitudes, and behaviors. Develops awareness of the availability of college resources such as interpreters, note takers, mentors, libraries, tutoring centers, and computer labs.

Dental Assisting Courses**DEA 102 Principles of Clinical Practice**

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Note: May be taken concurrently with DEA 120 and DEA 121

Includes techniques used in four handed dentistry, instrument identification, and armamentarium for tray set-ups. Covers sterilization and aseptic procedures.

DEA 104 Specialties in Dentistry

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: DEA 102 or concurrent enrollment

Note: May be taken concurrently with DEA 102, DEA 120, and DEA 121

Focuses on armamentarium of specific tray set-ups for periodontics, endodontics, and fixed and removable prosthodontics. Examines pediatric dentistry, oral surgery, and implants. Includes diagnosis, treatment, and the dental assistant's role in each specialty.

DEA 111 Dental Office Management

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: DEA 102, DEA 104, DEA 120, DEA 121, DEA 123, DEA 125, DEA 126

Note: May be taken concurrently with DEA 122, DEA 124, DEA 131, DEA 132, DEA 134

Includes office management and clerical practices, scheduling appointments, completing daily records, insurance and tax forms, bookkeeping and recall systems, and ordering supplies.

DEA 120 Introduction to Dental Practices

1 Credit Hour • 15 Contact Hours (Lecture)

Note: May be taken concurrently with DEA 121

Includes roles and responsibilities of the dental health team; educational background for the various specialties including general practitioner, hygienist, dental assistant; history, legal implications, ethical responsibilities and the role of professional organizations.

DEA 121 Dental Science I

3 Credit Hours • 45 Contact Hours (Lecture)

Note: May be taken concurrently with DEA 120

Includes fundamentals of the oral structures as they apply to oral histology, embryology, morphology, pathology, dental anatomy, and dental charting.

DEA 122 Dental Science II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: DEA 120 or DEA 121

Includes survey of human anatomy and physiology, the structure of the head and neck as applied to dental assisting, the function of the maxilla and mandible, processes, foramen, sutures, and major nerve and blood supply.

DEA 123 Dental Materials I

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Note: May be taken concurrently with DEA 120, DEA 121

Includes fundamentals of dental materials as they apply to clinical and laboratory applications.

DEA 124 Dental Materials II

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: DEA 120, DEA 121, DEA 123

Includes type, compositions, and uses of elastomeric impression materials and the fabrication of custom impression trays and temporary crowns.

DEA 125 Dental Radiography

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: DEA 121 or concurrent enrollment

Note: May be taken concurrently with DEA 120

Focuses on the science of radiography, the application of radiographic techniques, and aseptic techniques.

DEA 126 Infection Control

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Note: May be taken concurrently with DEA 120, DEA 121

Includes basic information concerning infection and disease transmission in the dental office. Emphasizes knowledge of microorganisms, with an emphasis on aseptic techniques, sterilization, and hazardous communication management.

DEA 131 Advanced Dental Radiography

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: DEA 120, DEA 121, DEA 125

Includes theory and techniques of exposing intra-oral and extra-oral radiographs on adults, children, edentulous, and special needs patients. Covers dental anatomy radiographic interpretation and aseptic techniques. Enables the student to expose radiographs on the x-ray mannequin and patients. Students must be a minimum of eighteen years of age.

DEA 132 Medical Emergencies in the Dental Office

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: DEA 102, DEA 120, DEA 121

Includes techniques for taking and reading vital signs. Emphasizes recognition, prevention, and management of medical emergency situations in the dental office. Covers completing and updating patient health history. Addresses pharmacology.

DEA 134 Prevention & Nutrition in Dentistry

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: DEA 102, DEA 120, DEA 121

Note: May be taken concurrently with DEA 122, DEA 132

Emphasizes techniques in preventive dentistry to include application of fluoride, pit and fissure sealants, oral home care instruction, diet counseling and nutrition as it applies to dental health. Covers techniques for coronal polishing, extra-oral and intra-oral examination, and dental charting.

DEA 140 Dental Assisting National Board Review (Elective)

1 Credit Hour • 15 Contact Hours (Lecture)

Prerequisite: DEA 102, DEA 104, DEA 111, DEA 120, DEA 121, DEA 122, DEA 123, DEA 124, DEA 125, DEA 126, DEA 131, DEA 132, DEA 134, DEA 181, or 2 years documented full time dental assisting experience

Note: May be taken concurrently with DEA 182

Focuses on a review for the Dental Assisting National Board (DANB) Examination.

DEA 181 Clinical Internship I

1 Credit Hour • 45 Contact Hours (Internship)

Prerequisite: Program coordinator consent

Includes the opportunity for clinical application of dental assisting techniques in a dental office or clinical setting as part of the American Dental Association's requirement of 300 clinical internship hours.

DEA 182 Clinical Internship II & Seminar

6 Credit Hours • 270 Contact Hours (Internship)

Prerequisite: DEA 181

Focuses on clinical practice in private or public dental offices or clinics with clinical work experience in both general dentistry and specialty fields on a rotating basis.

DEA 200 Introduction to Expanded Functions

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: Permission of Program Coordinator. Graduate of an American Dental Association accredited dental assisting program, Certified Dental Assistant, or 2 years of documented full time dental assisting experience

Emphasizes techniques and concepts of expanded functions in dental assisting, including team management, placement and finishing of dental restorative materials, and adjunct procedures necessary to restorative dentistry.

DEA 205 Expanded Functions for the Dental Auxiliary

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: DEA 200

Focuses on clinical application of expanded functions in dental assisting.

Diesel Power Mechanics Courses**DPM 100 Introduction to Diesel Mechanics**

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: DPM 100 must be taken concurrently with DPM 101

Focuses on the student identifying and describing the many different types of diesel powered vehicles. Emphasis is placed on being able to research information in maintenance manuals and parts manuals along with demonstration of their abilities in properly identifying and select mechanical fasteners for a particular application. Specific coverage of precision fasteners, fuels, fluids as they relate to the diesel industry.

DPM 101 Diesel Shop Orientation

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Note: DPM 101 must be taken concurrently with DPM 100

Focuses on maintaining a safe and clean working heavy duty diesel shop. Emphasis is placed on the proper use and care for hand, electric, air and hydraulic tools safely. Covers how to clean equipment properly, to handle and dispose of hazardous materials correctly, and to apply mandated regulations. Emphasis is also placed on proper lifting equipment.

DPM 103 Diesel Engines I

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101

Covers the theory and operation of diesel engines with emphasis on cylinder heads and valve trains diagnosis and repair. Also introduces the cooling system's importance with diagnosis and repair. Enables students to diagnose, test, and repair cylinder heads and cooling systems on diesel engines.

DPM 105 Heavy Duty Powertrains I

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101

Focuses on drive axles and universal joints of heavy duty trucks and equipment. Students will cover operations, tests, removal,

inspections, and repair of heavy duty drivelines, axles, and differentials.

DPM 106 Diesel Fuel Systems

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

*Prerequisite: DPM 100, DPM 101**Note: DPM 106 must be taken concurrently with DPM 210*

Covers the theory of operation and repair of fuel injection systems. Provides laboratory assignments that involve disassembly, assembly, and service procedures on fuel system components.

DPM 107 Fundamentals of Four-Wheel & Front-Wheel Drive

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101

Focuses on the operation and repair of four wheel drive and front wheel drive systems.

DPM 111 Cab & Electrical PMI

1.5 Credit Hours • 33.75 Contact Hours (Lecture/Lab Combination)

*Prerequisites: DPM 100, DPM 101**Note: DPM 111 must be taken concurrently with DPM 112*

Enables the student to perform preventive maintenance on heavy equipment and truck cab and electrical systems, and complete appropriate maintenance records. Addresses the process of diagnostics and troubleshooting. Focuses on the importance of preventive maintenance.

DPM 112 Engine Systems PMI

1.5 Credit Hours • 33.75 Contact Hours (Lecture/Lab Combination)

*Prerequisites: DPM 100, DPM 101**Note: DPM 112 must be taken concurrently with DPM 111*

Enables the student to perform preventive maintenance on heavy equipment and truck diesel engine systems, and complete appropriate maintenance records. Addresses the process of diagnostics and troubleshooting. Focuses on the importance of preventive maintenance.

DPM 120 Basic Heavy Duty Electricity

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisites: DPM 100, DPM 101

Introduces heavy duty equipment electricity to include basic electrical theory, circuit designs, and wiring methods, multimeter usage, and wiring diagrams. The focus is the demonstration of proper basic test procedures of electrical circuits.

DPM 121 Hydraulic Systems I

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101

Offers instruction on the basic fundamentals of hydraulics and their applications. Diagnosis, service, and testing along with safety are stressed within this course.

DPM 122 Hydraulic Systems II

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: DPM 121

Offers instruction on the repair, replacement, measuring, and subsequent adjustments of components. Identification and repairing pumps, control valves, and cylinders is stressed within this course.

DPM 123 Cummins B Series

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisites: DPM 100, DPM 101, DPM 103, DPM 106, DPM 203, DPM 210

Covers the history, developments, theory, operation and service procedures of a Cummins B Series diesel engines.

DPM 124 Powerstroke Engines

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisites: DPM 100, DPM 101, DPM 103, DPM 106, DPM 203, DPM 210

Covers the history, development, theory, operation and service procedures of Powerstroke Diesel Engines used in Ford Trucks.

DPM 125 Duramax Engines

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisites: DPM 100, DPM 101, DPM 103, DPM 106, DPM 203, DPM 210

Covers the history, development, theory, operation and service procedures for Duramax Diesel Engines used in General Motors Trucks.

DPM 126 Heavy Duty Starting And Charging

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: DPM 100, DPM 101, DPM 120

Includes the operation, testing and servicing of heavy duty vehicle battery, starting and charging systems. Includes voltage/voltage drop testing of starting and charging systems, diagnosis, maintenance, load testing and repair of systems.

DPM 140 H/D Steering & Suspension I

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101

Emphasizes lecture and related lab in the diagnosis and service of Heavy Duty mechanical and air suspension systems, wheels/tires and pressure management systems.

DPM 170 Lab Experience I

0-12 Credit Hours • 45 Contact Hours per Credit Hour (Work Experience)

Note: Must have Instructor permission

Continues to build upon the principles that are expected to be understood by students.

DPM 203 Diesel Engines II

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: DPM 103

Covers the theory of operation and repair of diesel engines with emphasis on the cylinder block in big bore engines. Enables students to disassemble, inspect, and reassemble engines.

DPM 205 Heavy Duty Powertrains II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101

Teaches students to diagnosis clutch and transmission problems. Focuses on clutch, transmission, additional assembly operation, testing, and repair. Students will learn removal, rebuilding, inspection, repairing, and replacement of all components.

DPM 206 Heavy Duty Brakes I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101

Focuses on the various braking systems incorporated in heavy-duty trucks and heavy equipment. Includes a study of hydraulic brake systems and covers the diagnosis and service of the mechanical and electrical components.

DPM 207 Heavy Duty Brakes II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: DPM 206

Focuses on general service and maintenance procedures for the heavy-duty truck air brake system and related pneumatic components. Operational checks, performance testing, and verifying system compliance with regulations (FMVSS No. 121) will be discussed.

DPM 208 H/D Automatic Trans Diagnosis

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101; DPM 205 or concurrent enrollment

Provides laboratory hands on experiences in the diagnosis of electrically controlled heavy duty transmissions.

DPM 210 Diesel Air Induction & Exhaust

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101

Note: DPM 210 must be taken concurrently with DPM 106

Covers the theory of operation and repair of turbochargers, superchargers, intercoolers, various induction and exhaust systems. Examines factors regulating engine performance failure, and procedures for reclaiming engine performance.

DPM 211 Drivetrain & Steering PMI

1.5 Credit Hours • 33.75 Contact Hours (Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101, DPM 111

Focuses on preventive maintenance of heavy duty truck & equipment drivetrains and steering systems including recording of critical information for the customer. Enables students to grasp the importance of preventive maintenance while gaining an understanding of component operation.

DPM 212 Brake System PMI

1.5 Credit Hours • 33.75 Contact Hours (Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101; DPM 211 or concurrent enrollment

Focuses on preventive maintenance of heavy duty truck & equipment hydraulic and pneumatic brake systems, including recording of critical information for the customer. Enables students to grasp the importance of preventive maintenance while gaining an understanding of component operation.

DPM 222 H/D Lighting & Instrumentation

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101, DPM 120

Provides students with diagnosis and repair of lighting systems found on Medium /Heavy duty trucks and equipment. Emphasis on inspecting and testing of electrical circuits, switches and interfacing through data bus with on board computers.

DPM 223 H/D Body Electrical Systems

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: DPM 100, DPM 101, DPM 120

Provides a comprehensive study of the theory, operation, diagnosis, and repair of the heavy duty vehicle body and safety electrical systems and accessories.

DPM 240 H/D Steering & Suspension II

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101

Emphasizes lecture and related lab in the diagnosis and service of Heavy Duty standard and air assisted steering along with chassis and frame alignment.

DPM 264 H/D Heating and Ventilation

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: DPM 100, DPM 101; DPM 265 or concurrent enrollment

Emphasizes lecture and related laboratory experiences in the diagnosis, service, and repair of equipment heating and ventilation systems.

DPM 265 Heavy Duty A/C Systems Service

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: DPM 100, DPM 101, DPM 264 or concurrent enrollment

Emphasizes lecture and related laboratory experiences in the diagnosis, service and repair of heavy duty vehicle air conditioning systems and their components.

DPM 280 Internship

0-12 Credit Hours • 45 Contact Hours per Credit Hour

(Internship)

Note: Must have Instructor permission to enroll

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.

Dietetic Technology Courses**DIT 110 The Modified Diet**

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Emphasizes the diet as a therapeutic tool in the treatment of certain diseases and conditions. Covers menu planning, calculation of exchanges, computerized nutritional analysis and development of recipes for tasteful, appealing foods for modified diets.

DIT 121 Nutrition for Dietary Managers

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on normal nutrition in the individual, nutrition education, nutritional assessment and care plans, principles of therapeutic nutrition, diet modifications, and quality assurance for clinical nutrition services.

DIT 123 Management for Dietary Managers

4 Credit Hours • 60 Contact Hours (Lecture)

Covers the following topics: menu planning, food and supplies procurement and production, personnel supervision, human relations, staff development, financial control, operations management, sanitation and safety.

DIT 212 Nutrition Care Seminar

3 Credit Hours • 45 Contact Hours (Lecture)

Incorporates hospital clinical experience. Enables the student to make correlation between the case study and application of nutritional interventions in real life patients at the work site. Focuses on special instruction on nutritional assessment to prepare for performing similar tasks in a clinical setting. Increases awareness of textbook verses actual disease states.

DIT 215 Personnel Supervision for Food Service

3 Credit Hours • 45 Contact Hours (Lecture)

Explores methods and reasons for suitable recruiting, selecting, training, and motivating employees in the food service industry.

DIT 221 Food and Drug Interactions

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on prescription and over-the-counter drugs in common use and assesses the side effects. Addresses the nutritional ways of overcoming these side effects.

DIT 250 Food Management Seminar

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an integrated systems treatment of aspects of medical food service addressed previously in individual courses.

DIT 256 Financial Management

3 Credit Hours • 45 Contact Hours (Lecture)

Exposes students to the financial operation and cost management concepts used in successful commercial food service. Emphasizes cost accounting procedures and the use of spreadsheets and other computer based programs. This course is part of the Pro

Mgmt program of the Educational Foundation of the National Restaurant Association.

DIT 270 Clinical Experience: Community

2-4 Credit Hours • 30 Contact Hours per credit hour (Clinical)

Gives first-hand experience with community nutrition and the changing health care delivery systems. It provides an overview of the agencies and programs involved in community nutrition. It also addresses the significant nutrition problems facing society. The student will have an in-depth experience in one community nutrition agency. The course carries 2-4 semester credits. Students are expected to meet weekly in a seminar class in addition to their on-site work. Students receiving 4 hours credit will work 165 hours at the specified sites plus the 15 hours of seminar. Students receiving 2 hours credit will work 75 hours at their specified site plus the 15 hours of seminar. This course is part of the American Dietetic Association accredited program for the Dietetic Technician. The clinical coordinator and student work out a mutually agreeable schedule to accomplish the required hours.

DIT 271 Clinical Experience: Hospital

6 Credit Hours • 180 Contact Hours (Clinical)

Incorporates first-hand experience with health care clients in a hospital setting. Emphasizes therapeutic dietetics and the application of nutritional care to clinical cases. Provides experience in hospital policy and procedures, nutrition education in a hospital and hospital food service management. Enables the student to have the opportunity to chart and follow an individual patient in a case study. The course carries 2-4 credits. Students are expected to meet weekly in a seminar class in addition to their on-site work. Students receiving 4 hours credit will work 165 hours at the specified sites plus 15 hours of seminar. Students receiving 2 hours credit will work 75 hours at their specified site plus 15 hours of seminar. This course is part of the American Dietetic Association accredited program for the Dietetic Technician. The clinical coordinator and student work out a mutually agreeable schedule to accomplish the required hours.

DIT 272 Clinical Experience: Nursing Homes

4 Credit Hours • 120 Contact Hours (Clinical)

Incorporates first hand experience with health care clients in retirement/nursing home centers. Emphasizes the administrative side of dietetics with experiences in menu planning, food preparation, purchasing, personnel management, financial control, sanitation and safety. Includes experiences in patient care, education and charting. The course carries 2-4 credits. Students are expected to meet weekly in seminar class in addition to their on-site work. Students receiving 4 hours credit will work 165 hours at the specified sites plus a 15 hour seminar. Students receiving 2 hours credit will work 75 hours at their specified site plus 15 hour seminar. This course is part of the American Dietetic Association accredited program for the Dietetic Technician. The site coordinator and student work out a mutually agreeable schedule to accomplish the required hours.

Driving Courses**DRV 100 Driver's Education**

2.5 Credit Hours • 56.25 Contact Hours (Lecture/Lab Combination)

Prerequisite: DRV 130 (Grade of B or higher), DRV 134 (Grade of B or higher)

Consists of 30 hours of classroom instruction and one to six hours of actual driving. Covers defensive driving techniques, drugs and alcohol, consequences of breaking traffic laws, insurance, how to buy a new and used car, proper driving techniques, what to do at the scene of an accident, what to do if your car breaks down, how to maintain your car and prepare for winter driving and seat belt safety. Enables the student to develop skills in defensive driving, three point turns, parallel parking, right and left turns, right of way,

winter driving, highway driving, changing lanes safely, learning to pass other vehicles correctly and rural driving techniques.

DRV 130 Preparing for CDL

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: DRV 132 (Grade of B or higher), DRV 136 (Grade of B or higher)

Prepares students for the CDL written test with detailed study guides in conjunction with the Colorado CDL manual. Students will learn to conduct walk-around inspections and become familiar with the course layout and driving portion of the test.

DRV 132 Trucks and Trailering

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: Students must be enrolled in at least one DPM class

Introduces students to the trucking industry, both over-the-road trucks and trailers and the operation of dump trucks used in construction and local commerce. Safe operations will be stressed, including securing loads on van, flat bed and drop bed trailers, watching for overhead hazards, backing safely, following standard fueling procedures, preventive maintenance and tire care.

DRV 134 Trucking Laws and Regulations

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: DRV 132 (Grade of B or higher), DRV 136 (Grade of B or higher)

This class introduces students to the laws and regulations governing the operation of commercial trucks and buses, defensive driving techniques, proper operation of equipment, and safe operation of vehicles while behind the wheel.

DRV 136 Vehicle Inspection and Maintenance

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Note: Students must be enrolled in at least one DPM class

Vehicle inspection and maintenance stresses the importance of pre-trip and post-trip inspections. Students will learn to identify and name the critical components on commercial vehicles, and to recognize problems with lubricants, fluids, tires and wheels, electrical systems, brakes, and the overall condition of the vehicle they intend to drive. This class will also prepare students to pass the pre-trip portion of the CDL driving test.

DRV 138 Driver Training

6 Credit Hours • 135 Contact Hours (Lecture/Lab Combination)

Prerequisite: DRV 130 (Grade of B or higher), DRV 134 (Grade of B or higher)

Provides over-the-road driving experience with the driving instructor to prepare participants for the CDL driving test. This class drills students in safe driving procedures both on and off the road, including driving empty and loaded vehicles, proper turning and backing, appropriate use of brakes, shifting, and observing speed limits, signals, road signs, and port-of-entry procedures.

Early Childhood Education Courses

ECE 100 Pre-licensing Training for Family Child Care Providers

1 Credit Hour • 15 Contact Hours (Lecture)

Provides the educational training necessary to meet the hours and categories of training required by the Colorado Department of Human Services to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two. Upon completion of 15 hours of training, in the areas listed below, the student will have met the academic training requirements of the Colorado Department of Human Services needed to open a licensed child care facility for children ages 2-12, with no more than two children under the age of two.

ECE 101 Introduction to Early Childhood Education

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

Provides an introduction to Early Childhood Education. Includes the eight key areas of professional knowledge: Child Growth and

Development; Health, Nutrition and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism; Administration and Supervision. Focuses on ages birth through age eight.

ECE 102 Introduction to Early Childhood Lab Techniques

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Practicum)

Prerequisite: ECE 103 or concurrent enrollment

Focuses on a classroom seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, to practice appropriate interactions, and to develop effective guidance and management techniques. Addresses ages birth through age 8.

ECE 103 Guidance Strategies for Children

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

Explores guidance theories, applications, goals, techniques, and factors that influence expectations, classroom management issues, and prosocial skills. Addresses ages birth through age 8.

ECE 111 Infant & Toddler Theory & Practice

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

Presents an overview of theories, applications (including observations) and issues pertinent to infant and toddler development in group and/or family settings. Includes state requirements for licensing, health, safety, and nutrition issues.

ECE 112 Introduction to Infant/Toddler Lab Techniques

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Practicum)

Prerequisite: ECE 111 or concurrent enrollment

Includes a classroom seminar and placement in an infant and/or toddler setting. The supervised placement provides the student with the opportunity to observe, to practice appropriate interactions, and to develop effective guidance and nurturing techniques with infants and/or toddlers. Addresses ages prenatal through age 2.

ECE 113 Infant/Toddler Lab Techniques II

3 Credit Hours • 90 Contact Hours (Practicum)

Prerequisite: ECE 111, ECE 112 or concurrent enrollment

Continues ECE 112 with responsibility for planning and implementing developmentally appropriate activities and care giving.

ECE 120 Introduction to Early Intervention for Infants and Toddlers

4 Credit Hours • 60 Contact Hours (Lecture)

Provides an introduction to early intervention (EI) for infants and toddlers and includes four key topics: orientation to early intervention, fundamentals of the Individualized Family Service Plan (IFSP) process, early intervention teamwork, and working with families of infants and toddlers.

ECE 121 Promoting Infant and Toddler Development in Natural Environments

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ECE 120 or concurrent enrollment

Emphasizes issues and strategies when working with infants and toddlers and their families in group and/or family settings. The course includes three key topics: supporting infants' and toddlers' social and emotional development, instructional strategies used in early intervention programs to support learning, and early oral language development.

ECE 122 Interventions for Infants' and Toddlers' Health, Communication, and Behavioral Needs

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ECE 121 or concurrent enrollment

Focuses on supporting infants and toddlers with health, communication, and behavioral needs. This course includes three key topics: the health services related to the early intervention programs; communication challenges and their impact on other

areas of development; and supporting infants and toddlers with behavior challenges and their families.

ECE 123 Critical Topics in Early Intervention: Autism, Assistive Technology, and Transition

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ECE 122 or concurrent enrollment

Introduces three critical topics: Autism Spectrum Disorders (ASD) in early intervention, instructional and assistive technology in early intervention, and transition of infants and toddlers at age three.

ECE 124 Professional Growth and Development: Theory and Practice (with Lab)

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: ECE 123 or concurrent enrollment

Focuses on theoretical and practical aspects of personal and professional growth and development of the Developmental Intervention (DI) assistant needed to work in early intervention settings. The course includes interpersonal skills to work in teams and support personal growth, as well as field experience in early intervention settings with infants and toddlers with disabilities. Students work under the supervision of experienced and licensed early intervention providers with direct guidance of the instructor.

ECE 125 Science/Math & the Young Child

3 Credit Hours • 45 Contact Hours (Lecture)

Examines theories of cognitive development as a framework for conceptualizing the way young children acquire scientific and mathematical skills, concepts, and abilities. Enables students to research and develop appropriate individual and group scientific/mathematical activities for young children.

ECE 127 Music/Movement for the Young Child

1 Credit Hour • 15 Contact Hours (Lecture)

Focuses on the purposes of incorporating music and movement into the early childhood curriculum. Through active participation with hands-on experiences, students work with the concepts of age and developmental appropriateness when designing fun activities with both subjects.

ECE 191 School Age Theory & Practice

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

Emphasizes processes for planning and implementing developmentally appropriate environments, materials, and experiences in school age programs, working with children ages 6 – 12 years of age. Provides expression and problem-solving skills in school age children.

ECE 192 School Age Lab Techniques

3 Credit Hours • 90 Contact Hours (Practicum)

Prerequisite: ECE 191 or concurrent enrollment

Incorporates lab experience in before/after school, summer camp, or elementary school programs. Focuses on planning and implementing developmentally appropriate curriculum for school age children. Includes assisting the supervising teacher in all activities.

ECE 205 Nutrition, Health & Safety

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

Focuses on nutrition, health, and safety as a key factor for optimal growth and development of young children. Includes nutrient knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities, and communication with families. Addresses ages from prenatal through age 8.

ECE 209 Observing and Utilizing Young Children's Assessment Instruments

1 Credit Hour • 15 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

Examines the current research on the continuous practice of observing children. Incorporates practice with a variety of

assessment instruments currently utilized in Colorado ECE programs.

ECE 220 Curriculum Development: Methods & Techniques

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ECE 101 or concurrent enrollment

Provides an overview of early childhood curriculum development. Includes processes for planning and implementing developmentally appropriate environments, materials and experiences, and quality in early childhood programs.

ECE 225 Language & Cognition for the Young Child

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: PSY 238

Note: Course offered at CCCOnline only

Examines theories of cognitive and language development as a framework for conceptualizing the way children acquire thinking skills. Includes observing, planning, facilitating, creative representation, and evaluating strategies within the context of play. Focuses on language, science, math, problem solving, and logical thinking. Addresses ages birth through age 8.

ECE 226 Creativity & the Young Child

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ECE 101 or concurrent enrollment

Provides an emphasis on encouraging and supporting creative self-expression and problem solving skills in children. Explores creative learning theories and research. Focuses on developmentally appropriate curriculum strategies in all developmental domains. Addresses ages birth through age 8.

ECE 237 Theories & Techniques of Social & Emotional Growth

3 Credit Hours • 45 Contact Hours (Lecture)

Note: Must have faculty consent to enroll

Incorporates student specific techniques and strategies for guiding and enhancing social and emotional growth in children 0-8 years. Introduces and compares the theories and theorists underlying quality interactions and patterns of social and emotional progression.

ECE 238 Child Growth & Development

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

Covers the growth and development of the child from conception through the elementary school years. Emphasizes physical, cognitive, language, social and emotional domains and the concept of the whole child as well as how adults can provide a supportive environment through teaming and collaboration.

ECE 240 Administration of Early Childhood Care & Education Programs

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ECE 101 or concurrent enrollment

Examines Colorado's minimal licensing requirements, as well as optimal standards pertaining to the operation of programs for young children. Focuses on the director's administrative skills and role as a community advocate for young children. Addresses ages birth through age 12.

ECE 241 Administration: Human Relations for Early Childhood Education

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ECE 101 or concurrent enrollment

Focuses on the human relations component of an early childhood professional's responsibilities. Includes director-staff relationships, staff development, leadership strategies, parent-professional partnerships, and community interaction.

ECE 256 Working with Parents, Families, and Community Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

Examines attitudes and family values systems and how they affect parent-professional partnerships. Addresses communication,

problem-solving and conflict resolution strategies. Plans effective activities and programs for parent involvement. Addresses ages birth through 8.

ECE 260 The Exceptional Child

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 or concurrent enrollment

Presents an overview of critical elements related to educating young children with disabilities in the early childhood setting. Topics include the following: typical and atypical development, legal requirements, research based practices related to inclusion, teaming and collaboration, and accommodations and adaptations. Student will learn how a disability will impact a young child's learning process. Focus of the course is on birth through age 8.

ECE 261 Exceptional Child Lab Techniques

3 Credit Hours • 90 Contact Hours (Practicum)

Prerequisite: ECE 260 or concurrent enrollment

Incorporates a supervised experience in a program serving exceptional children in an inclusive setting. Focuses on the responsibility for planning and implementing developmentally appropriate activities, supporting classroom adaptations and accommodations, practicing appropriate interactions, and developing effective guidance and nurturing techniques.

ECE 279 Seminar

1- 6 Credit Hours • 15 Contact Hours per credit (Seminar)

Note: Must have faculty consent to enroll

Provides students with an opportunity to examine aspects of early childhood education in detail.

ECE 289 Capstone: Early Childhood Education

5 Credit Hours • 150 Contact Hours (Practicum)

Note: Must have faculty consent to enroll

Incorporates a demonstrated culmination of learning within a given program of study.

Economics Courses

ECO 201 Principles of Macroeconomics: SS1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 055

Focuses on the study of the American economy, stressing the interrelationships among household, business, and government sectors. Explores saving and investment decisions, unemployment, inflation, national income accounting, taxing and spending policies, the limits of the market and government, public choice theory, the Federal Reserve System, money and banking, and international trade.

ECO 202 Principles of Microeconomics: SS1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 055

Studies the firm, the nature of cost, and how these relate to the economy as a whole. Analyzes economic models of the consumer, perfect competition, monopoly, oligopoly, and monopolistic competition. Explores economic issues including market power, population growth, positive and negative externalities, income distribution, poverty and welfare, discrimination, and international economic interdependence.

ECO 245 Issues in Environmental Economics: SS1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 055

Introduces students to contemporary environmental issues and policies meant to reduce environmental degradation. Includes market failures, analytical tools, government pollution reduction policies for air, water, and natural environments and their effectiveness.

Education Courses

EDU 110 Overview of Special Populations for Paraeducators

3 Credit Hours • 45 Contact Hours (Lecture)

Note: A reading level of 9th grade or faculty consent is required for entry into the class.

Provides students with knowledge in the areas of laws and history of special education; roles and responsibilities of paraeducators; planning for students with disabilities; typical and non-typical developmental stages of children and youth; basic learning concepts; cognitive, communicative, physical and affective needs of students with disabilities; understanding people with disabilities; transition, job coaching; and how to teach students self-advocacy skills.

EDU 111 Communication Skills with Special Populations for Paraeducators

3 Credit Hours • 45 Contact Hours (Lecture)

Provides knowledge in areas of effective communication skills, problem solving techniques, and analyzing self as communicator.

EDU 112 Health & Safety Issues in Schools for Paraeducators

1 Credit Hour • 15 Contact Hours (Lecture)

Provides students with the knowledge in the areas of health and safety issues in schools; basic first aid and CPR procedures; and the feeding and positioning of physically challenged students.

EDU 114 Student Behavior Management for Paraeducators

3 Credit Hours • 45 Contact Hours (Lecture)

Provides students' knowledge in the areas of behavior modification; teaching appropriate behaviors; contingency contracts; observing and recording behavior; lunchroom supervision; and playground supervision.

EDU 141 Basic Instructional Techniques for Paraeducators

3 Credit Hours • 45 Contact Hours (Lecture)

Provides students with knowledge in the areas of delivering instruction; grouping students; reading with students; modifying instructional materials; using technology; and utilizing adaptive equipment.

EDU 188 Practicum I

1-6 Credit Hours • 45 Contact Hours per credit hour (Practicum)

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 education facility and with the direct guidance of the instructor.

EDU 221 Introduction to Education

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121

Note: Must have concurrent field-experience component if not embedded in the class

Focuses on the historical, social, political, philosophical, cultural, and economic forces that shape the United States public school system. Includes current issues of educational reform, technology as it relates to education, and considerations related to becoming a teacher in the state of Colorado. Special interest will be paid to the topic of diversity in the K-12 school system.

EDU 222 Effective Teaching

1 Credit Hour • 15 Contact Hours (Lecture)

Focuses on strategies for becoming an effective teacher. Topics include course goals and objectives, the first day, planning a lesson, higher levels of thought, test design and grading, assessment, and teaching and learning styles.

EDU 234 Multicultural Education

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on the need to recognize and understand the similarities and differences among people and develop a respect for all individuals and groups. Assists teachers to recognize the special learning needs of children from different racial, ethnic, cultural

and socioeconomic groups and to encourage teachers to integrate multicultural/diversity teaching into the school curriculum.

EDU 250 CTE in Colorado

1 Credit Hour • 15 Contact Hours (Lecture)

Explores common elements of American community college philosophy and current practices. It details the philosophy of Career and Technical Education (CTE), the federal Carl D. Perkins legislation and related guidelines for CTE, national and state regulatory agencies, the CCCS program approval process, enrollment management and advising strategies, relevant local and national issues, and quality assurance principles.

EDU 251 Secondary CTE Capstone

3 Credit Hours • 45 Contact Hours (Lecture)

This capstone course in the secondary CTE credentialing sequence offers an in-depth analysis of secondary career and technical student organizations and competitions, the Colorado Technical Act, working with exceptional students, creating and effectively deploying program advisory committees, and an overview of educational and political systems in Colorado. The final project is an analysis of the efficiency with which one's employing school district funds, operates and assesses CTE programs.

EDU 260 Adult Learning & Teaching

3 Credit Hours • 45 Contact Hours (Lecture)

Examines the philosophy of community colleges and the roles and responsibilities of the faculty member within the college community. Introduces basic instructional theories and applications, with particular emphasis on adult learners. Includes syllabus development, learning goals and outcomes, and lesson plans. Emphasizes teaching to a diverse student body, classroom management, assessment and instructional technology.

EDU 261 Teaching, Learning & Technology

3 Credit Hours • 45 Contact Hours (Lecture)

Prepares students to integrate technology into their teaching curriculum. Enables the student to design educational and training materials incorporating instructional technology. Explores a variety of technologies, including the computer, Internet, multimedia, graphics, audio, and text with an emphasis on increasing learning through their use. Examines combining technology with a variety of instructional methodologies.

EDU 263 Teaching & Learning Online

3 Credit Hours • 45 Contact Hours (Lecture)

Provides faculty with the knowledge and skills necessary to design, develop, and deliver courses in a distance format. Focuses on assessment and evaluation methods and methods to incorporate interactive, collaborative and expanded learning activities.

EDU 265 Instructional Design

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: EDU 221 or EDU 260

Introduces the student to a systematic approach to Instructional Design and the design of instruction with multimedia. Incorporates learning and instructional theory into course/training design to ensure the quality of instruction. Covers the process of goal analysis and learning needs coupled with the development of a delivery system to meet those needs. Includes the development of instructional materials and activities and the evaluation of all instruction and learner activities.

EDU 266 Advanced College Teaching Methods

1 Credit Hour • 15 Contact Hours (Lecture)

Explores current adult learning theory, and relates this theory to the practice of teaching. It also covers a variety of factors that influence teaching and learning, including social and individual psychological aspects of adult learning, patterns of participation and motivation, the role of instructional technology, handling challenging classroom behaviors, and assessment and evaluation

strategies. The main point raised and discussed throughout the course is that effective teaching requires that instructors utilize a range of teaching and assessment approaches and methods in order to enhance learning.

Electronics Courses

ELT 101 Survey of Electronics

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Introduces electronics for consumers, individuals working in related fields, and those exploring Electronics Engineering Technology as a career option. Covers fundamental concepts, circuit diagrams, construction of circuits, test instruments, basic troubleshooting, and the operation of common electronic systems and circuits.

ELT 106 Fundamentals of DC/AC

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: MAT 050

Introduces the basic skills needed for many careers in electronics and related fields. Covers the operations and applications of basic DC and AC circuits consisting of resistors, capacitors, inductors, transformers, and diodes. Emphasizes the use of common test instruments in troubleshooting.

ELT 107 Fundamentals of Industrial Electronics

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 106

Provides a basic knowledge of generators, motors, and the solid state devices and digital techniques used for industrial control applications.

ELT 109 Quality Business Practices

1 Credit Hour • 15 Contact Hours (Lecture)

Covers current business practices designed to improve productivity and quality in the workplace. Addresses practices affecting materials and process control, as well as personnel-related issues of performance and work teams.

ELT 112 Advanced DC/AC

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 106 or concurrent enrollment

Continues to build on ELT 106 and covers advanced concepts of DC-AC circuits. Includes an expanded treatment of power supplies, dual-supply rectifier circuits, and Zener diode voltage regulators. Emphasizes troubleshooting.

ELT 134 Solid State Devices I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 112

Focuses on diode and transistor studies starting with a review of semiconductor materials. Emphasizes rectifier circuits, R-C and L-C filters, limiters and peak detectors, zener regulators, Schottky diodes, varactors/varistors, LED's bipolar transistors, transistor approximation, load-lines, biasing techniques, saturation, operating point, AC models including small-signal operation, h-parameters, and data sheet understanding and interpolation.

ELT 135 Solid State Devices II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 134 or concurrent enrollment

Continues the study of transistors with an emphasis on application of modern devices to industrial circuits. Includes power amplifiers, Cascaded and Darlington configurations, field-effect devices, JFET's and MOSFET's, depletion and enhancement mode devices, biasing techniques, thyristors, SCR's and variations of the SCR family of devices.

ELT 147 Digital Devices I

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Introduces the operation and application of gates, flip-flops, counters, shift registers, encoders-decoders, and LED displays. Covers binary numbers, Boolean algebra, and troubleshooting.

ELT 148 Digital Devices II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 147 or concurrent enrollment

Continues ELT 147 with emphasis on the operation and application of programmable logic devices, synchronous counters, multiplexers, liquid crystal displays, ROM and RAM. Includes specifications of ICs, display multiplexing, and design and minimization of circuits. Troubleshooting is emphasized.

ELT 163 Soldering

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Covers the theory and practice of high reliability hand soldering in the electronics field. Includes soldering practice with wire and terminal soldering as well as PCB soldering of through-hole and surface-mount devices.

ELT 165 Electronic Assembly

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Introduces electronic assembly methods with an emphasis on processes, safety, component recognition, and soldering techniques for both through hole and surface mount components.

ELT 215 Operational Amplifiers

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 135

Focuses on a study of integrated operational amplifiers and their applications. Troubleshooting is emphasized.

ELT 248 Automation Control Circuits

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 134

Introduces the fundamentals of automatic controls including process control methodologies used to regulate a system or multiple systems for the purpose of establishing and maintaining a predictable manufacturing process.

ELT 252 Motors and Controls

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Enables the student to study, construct, test, and evaluate basic industrial control systems, including AC/DC motors, stepper motors, power sources, generators, tachometers, line diagrams and logic functions. Covers safety standards and preventive maintenance.

ELT 257 Sensors and Transducers

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Enables the student to study, construct, test and evaluate methods of testing and controlling common industrial processes. Includes sensing systems, transducers, measurement techniques, systems interfacing, process control, and data acquisition.

ELT 258 Programmable Logic Controllers

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 148

Covers the fundamentals of programmable logic controllers (PLCs) as they are applied in robotics and automation. Includes history, terminology, typical applications, hardware, and software. Incorporates lab and project activities that address operating, monitoring, programming, troubleshooting, and repairing PLC controlled lab trainers as well as actual industrial equipment.

ELT 259 Advanced Programmable Logic Controllers

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 258

Serves as the second in a two course sequence and covers advanced topics and applications for programmable logic controllers (PLCs) as they are applied in robotics and automation. Includes advanced programming, diagnostics, Human Machine Interfaces (HMIs), introduction to automation networking, and system integration. Incorporates lab and project activities that address designing, operating, monitoring, programming, analyzing, troubleshooting, and repairing PLC controlled lab trainers as well as actual industrial equipment.

ELT 261 Microprocessors

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 147

Focuses on basic operation and applications of microprocessors. Enables the student to write machine and assembly language programs, interface microprocessors to various devices, and troubleshoot microprocessor-based systems.

ELT 263 Enhanced Microprocessor Systems

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: ELT 148

Focuses on microprocessor interfacing, industry standard serial and parallel interface devices, support software, development and implementation, system schematic orientation, logic analyzer, timing and measurement considerations, and troubleshooting techniques.

ELT 264 Enhanced Microprocessor Systems Lab

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: ELT 148; ELT 263 or concurrent enrollment

Covers construction, measurement, analysis, application, and experimentation with systems developed in ELT 263.

ELT 268 Robotics Technologies

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Introduces industrial robotics as well as a survey of the technologies and equipment used in manufacturing automation and process control. Includes axis configurations, work envelopes, programming, troubleshooting, and maintenance. Incorporates a survey of automation topics including history, computer and hardwired controls, sensors and transducers, motors and actuators, fluid power, etc. and provides a preview of the other ELT classes that cover those subjects.

ELT 280 Internship

3 Credit Hours • 135 Contact Hours (Internship)

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.

Emergency Management & Planning Courses

EMP 101 Principles of Emergency Management

3 Credit Hours • 45 Contact Hours (Lecture)

Presents a broad overview of an emergency management system and the importance of an integrated approach to managing emergencies. Enables the student to formulate the elements of an integrated teamwork system and devise specific actions for improving their own contributions to local emergency management teams. Focuses on all disciplines that work together in planning for or responding to emergencies.

EMP 105 Emergency Planning

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces a specialized type of community planning that identifies local government strategies, resources and responsibilities for protecting citizens from the effects of disasters and other major emergency events. Focuses on the Emergency Operations Plan (EOP) and a jurisdiction's game plan for dealing with potential catastrophes resulting from natural hazards and/or human-caused hazards. Examines EOPs in detail including their history and evolution, process, recommended content, style and format, involved stakeholders, and implementation methods. Covers the context of emergency planning as it relates to long-range community planning. Addresses methods for conducting a comprehensive community hazard analysis and highlights lessons learned in recovering from a disaster.

EMP 106 Exercise Design Evaluation

3 Credit Hours • 45 Contact Hours (Lecture)

Provides knowledge and the development of skills that enable the student to train a staff and to conduct an exercise that tests a community's plan and its operational response capability. Enables the student to manage exercise evaluation activities before, during, and after an emergency management exercise.

EMP 107 Emergency Operations Center & Communications

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the knowledge and skills to manage and operate an EOC during crisis situations. Covers aspects of properly locating and designing an EOC, how to staff, train and brief EOC personnel, and how to operate an EOC during various situations. Focuses on various aspects of information gathering and dissemination including best practices for use of computers in an EOC environment, promoting enhanced planning and better control information flow to safely and effectively make strategic response decisions.

EMP 240 Leadership & Influence

3 Credit Hours • 45 Contact Hours (Lecture)

Explores the dynamics of managing major emergency incidents, focusing on the National Incident Command System. Covers major incidents where large life, property, or economic losses are possible. Includes organization and staffing, incident and event planning/staffing, organizing a response to an incident, and incident resource management. Actual incidents are discussed and analyzed. Focuses on the experience of others in handling major emergencies and the preplanning of emergencies.

Emergency Medical Service Courses**EMS 115 Emergency Medical Responder**

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Provides the student with core knowledge and skills to function in the capacity of a first responder arriving at the scene of an emergency, providing supportive care until advanced EMS help arrives.

EMS 121 EMT Fundamentals

3 Credit Hours • 52.5 Contact Hours (30 Lecture, 22.5 Lecture/Lab Combination)

*Prerequisite: CCR 092, MAT 050**Note: EMS 121, EMS 122, EMS 123, EMS 124 and EMS 170 must be taken concurrently*

Introduces the Emergency Medical Technician (EMT) student to pre-hospital emergency care. The topics included in this course are Emergency Medical Services (EMS) systems, well-being of the EMT, communications, documentation, anatomy, airway management, and patient assessment.

EMS 122 EMT Medical Emergencies

4 Credit Hours • 60 Contact Hours (Lecture)

*Prerequisite: CCR 092, MAT 050**Note: EMS 121, EMS 122, EMS 123, EMS 124 and EMS 170 must be taken concurrently*

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to effectively provide emergency care and transportation to a patient experiencing a medical emergency. This course focuses on the integration of the physical exam, medical history, and pathophysiology when assessing and treating the medical patient.

EMS 123 EMT Trauma Emergencies

2 Credit Hours • 30 Contact Hours (Lecture)

*Prerequisite: CCR 092, MAT 050**Note: EMS 121, EMS 122, EMS 123, EMS 124 and EMS 170 must be taken concurrently*

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to provide appropriate emergency care and transportation of a patient who has suffered a traumatic

injury. The concepts of kinematics and the biomechanics of trauma, along with pathophysiology and injury patterns will provide the student with the ability to assess and manage the trauma patient.

EMS 124 EMT Special Considerations

2 Credit Hours • 30 Contact Hours (Lecture)

*Prerequisite: CCR 092, MAT 050**Note: EMS 121, EMS 122, EMS 123, EMS 124 and EMS 170 must be taken concurrently*

Provides the Emergency Medical Technician (EMT) student with the knowledge and skills required to modify the assessment, treatment, and transportation of special patient populations and patients in special circumstances. This course also provides an overview of incident command, mass casualty incidents, vehicle extrication, air medical support, hazardous materials, and terrorism.

EMS 126 EMT Basic Refresher

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Provides the student with a refresher course designed to meet the recertification requirements for the State of Colorado and/or a portion of the recertification requirements for National Registry.

EMS 130 EMT Intravenous Therapy

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: Must have EMS Program permission to enroll. Must be EMT or EMT-B issued by the State of Colorado

Focuses on cognitive and skill practice as required by Colorado Prehospital Care program for EMT Basic level IV approval. Examines criteria, procedures and techniques for ICV therapy, discusses fluid and electrolyte balance and principles and treatment for shock.

EMS 136 EMT/Paramedic Safety Issues in the Field

1 Credit Hour • 15 Contact Hours (Lecture)

Provides EMTs and paramedics with the skills needed to quickly assess the scene for potential hazards to themselves. Introduces topics on scene safety, evaluation of potential problem patients, verbal communication control techniques, physical control techniques for the problem patient, and scene control techniques.

EMS 170 EMT Basic Clinical

1 Credit Hour • 30 Contact Hours (Clinical)

*Prerequisite: Concurrent enrollment in EMS 121, EMS 122, EMS 123, EMS 124**Note: Student must hold a current CPR card at the American Heart Association Healthcare Provider or American Red Cross Professional Rescuer level prior to starting clinical rotations midway through the semester. Students can obtain this card by completing HPR 102 at PPCC or by taking the course in the community.*

Grading: S/U only

Provides the EMS student with the clinical experience required of initial and some renewal processes.

EMS 225 Fundamentals of Paramedic Practice

3 Credit Hours • 90 Contact Hours (45 Lecture/Lab Combination, 45 Practicum)

*Prerequisite: BIO 201**Note: Must have Instructor permission to enroll*

Introduces the paramedic student to the advanced practice of prehospital care. This course covers professional behavior, medical ethics, legal issues, patient assessment, therapeutic communication, clinical decision making, and basic and advanced airway management. This course discusses EMS's role in the healthcare continuum, professional communication, patient care documentation, IV fluid therapy and resuscitation, and the application of evidence based medicine. A brief overview of human anatomy, physiology and pathophysiology is included.

EMS 226 Fundamentals of Paramedic Practice Lab

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Grading: S/U only

Serves as the lab experience to coincide with EMS 225 topics.

EMS 227 Paramedic Special Considerations

3 Credit Hours • 90 Contact Hours (45 Lecture/Lab Combination, 45 Practicum)

Note: Must have Instructor permission to enroll

Focuses on a comprehensive study of Advanced Life Support Practice.

EMS 228 Paramedic Special Considerations Lab

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Serves as the lab experience for those students enrolled in EMS 227.

EMS 229 Paramedic Pharmacology

3 Credit Hours • 90 Contact Hours (45 Lecture/Lab Combination, 45 Practicum)

Note: Must have Instructor permission to enroll

Introduces the paramedic student to advanced emergency pharmacology, pharmacokinetics and pharmacodynamics. This course will include laws affecting the use and distribution of medications, medication dosing, clinical calculations, routes of administration and discussion of common medication classifications to include indications, contraindications and side effects.

EMS 230 Paramedic Pharmacology Lab

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Grading: S/U only

Serves as the required lab course in the paramedic education program.

EMS 231 Paramedic Cardiology

5 Credit Hours • 116.25 Contact Hours (37.5 Lecture, 33.75 Lecture/Lab Combination, 45 Practicum)

Note: Must have Instructor permission to enroll

Introduces the paramedic student to cardiovascular emergencies and the care of patients presenting with cardiovascular emergencies. Topics will include assessment of the cardiovascular system, ECG acquisition and interpretation both single lead and 12 lead, pathophysiology of cardiovascular disease and treatments indicated for a given disease.

EMS 232 Paramedic Cardiology Lab

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Incorporates a hands-on application of principles of cardiac care in the hospital environment.

EMS 233 Paramedic Medical Emergencies

4 Credit Hours • 105 Contact Hours (15 Lecture, 45 Lecture/Lab Combination, 45 Practicum)

Note: Must have Instructor permission to enroll

Expands on the paramedic student's knowledge of medical emergencies with the Integration of assessment findings in formulating a field impression and implementing a treatment plan. This course will cover principles of epidemiology and pathophysiology related to common medical emergencies including: neurological, abdominal and gastrointestinal disorders, immunological, infectious diseases, endocrine disorders, psychiatric disorders, toxicological, respiratory, hematological, genitourinary, gynecological, non-traumatic musculoskeletal disorders, and diseases of the eyes, ears, nose, and throat.

EMS 234 Paramedic Medical Emergencies Lab

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Focuses on a clinical study of adult and pediatric medical emergencies.

EMS 235 Paramedic Trauma Emergencies

4 Credit Hours • 105 Contact Hours (15 Lecture, 45 Lecture/Lab Combination, 45 Practicum)

Note: Must have Instructor permission to enroll

Expands on the paramedic student's knowledge of trauma emergencies with the integration of assessment findings in formulating a field impression and implementing a treatment plan for an acutely injured patient. The course will provide an in depth evaluation of trauma to include: categorization of trauma patients, incidence of trauma, trauma systems, types of injury, trauma assessment, documentation in trauma, trauma scoring scales, trauma center designations, and transfer of patients.

EMS 236 Paramedic Trauma Emergencies Lab

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Grading: S/U only

Serves as a lab presenting various acute trauma scenarios.

EMS 237 Paramedic Internship Preparatory

2 Credit Hours • 30 Contact Hours (Lecture)

Note: Must have Instructor permission to enroll

Reviews concepts and techniques used in the pre-hospital setting.

EMS 280 Paramedic Internship I

6 Credit Hours • 270 Contact Hours (Work Experience)

Note: Must have Instructor permission to enroll

Serves as the preceptor/internship program for paramedic students.

EMS 281 Paramedic Internship II

6 Credit Hours • 270 Contact Hours (Work Experience)

Note: Must have Instructor permission to enroll

Serves as the continuation of EMS 280, preceptor program for paramedic students.

Energy Technology Courses**ENY 200 Energy Management**

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: EGG 243 or concurrent enrollment

Introduces the role of energy and energy management in business. Key subjects include energy statistics, reporting and goal setting, balancing business with sustainability, measurement and verification, fuel switching, financing and performance contracting, energy codes and legislation, and effectively communicating technical material to a variety of audiences. Demonstrate goal setting and measurement / reporting activities suitable for the field of energy.

ENY 201 Alternative Energy Systems

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: EGG 243 or concurrent enrollment

Introduces renewable alternatives to conventional fossil fuel energy supply sources. Topics include combined heat and power, photovoltaics, solar pool heating, passive solar and cool roof technologies, carbon footprint and embedded energy concepts, externalities, government roles and society cost tests.

ENY 211 Energy Systems and Controls I

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: HVA 105, HVA 204 or concurrent enrollment, HVA 259

Studies major commercial building components responsible for energy use. Topics include lighting technologies and characteristics, complex HVAC systems, primary heating & cooling systems, thermal and combustion efficiency of fired systems, 2-pipe and 4-pipe hydronic systems, energy transport burden,

district heating and cooling, air and water economizers, and impacts to indoor environment quality.

ENY 212 Energy Systems and Controls II

5 Credit Hours • 97.5 Contact Hours (30 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: ENY 211

Introduces advanced analysis techniques and control strategies for commercial building systems. Related subjects will include advanced psychometrics, overlapping heating and cooling, waste heat recovery, demand controlled ventilation, daylight harvesting, interacting energy conservation measures, and an introduction to industrial energy process evaluation.

ENY 221 Quantifying Energy Use I

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Prerequisite: ENY 212 or concurrent enrollment

Introduces basic calculation methods for quantifying energy use and energy savings. Topics will include load profiles, parasitic and standby losses, compounding efficiencies, integrated design, design energy budgets, transport energy, benchmarks and end use pies for rough estimating, and reasonableness testing.

ENY 222 Quantifying Energy Use II

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: ENY 221

Introduces advanced energy accounting methods and energy modeling techniques. Energy engineering fundamentals will include incremental and overall energy use approaches, overlaying equipment efficiencies and with load profile data, use of spreadsheet formulae, overlapping and dependent measures, and utility rate structures.

ENY 241 Energy Engineering Lab

5 Credit Hours • 112.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ENY 200, ENY 201, ENY 222 or concurrent enrollment

Use energy project scenarios to demonstrate the combined skills of related prior coursework. Activities will demonstrate marketable skills in energy system knowledge, identifying opportunities, analysis for quantifiable savings, engineering economics, report writing, and presentation.

Engineering Courses

ENG 102 Introduction to Engineering Methodologies

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: ENG 121 or concurrent enrollment, MAT 121 or concurrent enrollment

Presents a balanced coverage of the fundamental concepts of engineering principles and the practical exposure to a laboratory experience. The principles presented in the lecture setting and the experience gained by performing laboratory projects are intertwined. Students will be expected to engage in a team environment and be actively involved in laboratory as well as standard instructional activities.

EGG 243 Engineering Economics

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 050

Introduces methods to analyze cost/benefit elements in technical operations and project proposals, and to compare alternatives, using time value of money concepts. Emphasis is on practical applications and techniques which can be applied to many facets of engineering and commerce, including design, development, production, construction operation, improvements and upgrades. Solutions include the use of graphical and numerical solution methods, interest tables and factors, use of manual calculations and spreadsheet methods.

Engineering Graphics Technology Courses

EGT 103 Applied Dimension & Tolerance

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisites: CAD 100, CAD 101, CAD 102

Focuses on industrial dimensioning practices, enables the student to develop skills in dimensioning techniques and learn to apply the ASME Y14.5 dimensioning standard.

EGT 104 Technical Drafting IV

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: CAD 255, EGT 103

Introduces students to industrial working drawings. Students continue to develop drafting skills using various industrial standards for drawing generation. Examines material selection, part function and relationship, and tolerancing of parts for assemblies.

EGT 205 Geometric Dimensioning & Tolerance

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisites: CAD 100, EGT 103

Focuses on interpreting and applying geometric dimensioning and tolerancing (GDT) in machining or drafting per the ASME Y14.5 specification. Demonstrate and distinguish GDT through math formulas, tolerancing systems, modifiers, symbols, datums, and tolerances of form, profile, orientation, run-out and location. Students examine and interpret the generation of a working drawing, and how they are developed as a team effort between design, drafting, manufacturing and quality control.

EGT 262 Sheet Metal Fabrication Drawings

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: CAD 100, CAD 101, CAD 102

Investigates layout and design of sheet metal components. Explores developments (initial drawings), bend allowance calculations, and flat patterns.

English Courses

ENG 115 Technical English & Communication

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

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

ENG 116 Designing Print Documentation

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on developing technical documents, such as product manuals and troubleshooting guides that are delivered to users in print form. Emphasizes content, organization, presentation, and style of print documentation. Introduces concepts of document preparation and printing, as well as project cycle management, working as part of a documentation team, and collaboration with technical experts.

ENG 117 Grammar, Usage, & Style for the Professional Writer

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on grammar, usage, and style issues facing the individual who writes on the job, either as a technical writer or a technical professional whose job involves a substantial writing component. Emphasizes knowledge and skills needed for clear, direct, competent communication. Introduces grammatical theory and practice and conventions of usage in English. Covers matters of style, particularly as they relate to clarity for a target audience.

ENG 118 Designing Online Documentation

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on developing technical documents that are delivered to users on line, such as online manuals and online help information. Emphasizes content, organization, presentation, and style of online documentation. Introduces hypertext and web publishing concepts, as well as project cycle management, working as part of a documentation team, and collaboration with technical experts.

ENG 121 English Composition I: C01

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: Accuplacer score or 95(SS) or ACT score of 18, or CCR 092 (Grade of C or higher)

Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing.

ENG 122 English Composition II: C02

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 (Grade of C or higher)

Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative, and/or persuasive papers that incorporate research.

ENG 131 Technical Writing I

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: Accuplacer score of 95(SS) and 80(RC) or ACT English score of 18, or CCR 092 (Grade of C or higher)

Note: Student must be computer literate

Develops skills one can apply to a variety of technical documents. Focuses on principles for organizing, writing, and revising clear, readable documents for industry, business, and government.

ENG 132 Technical Writing II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 131 (Grade of C or higher)

Expands and refines the objectives of ENG 131, emphasizing formal presentations, both written and oral.

ENG 201 English Composition III: C03

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 122 Grade of C or higher)

Provides students with skills necessary to enter into higher-level undergraduate academic discourse or professional workplace writing. ENG 201 extends students' rhetorical knowledge and develops critical reading, thinking, and writing strategies in multiple specialized areas of discourse beyond what they encounter in ENG 122. In ENG 201, students deepen their rhetorical and writing skills by learning to analyze, synthesize, summarize, complex texts and incorporate this information into specific writing conventions for a defined discipline. As a more advanced composition course, ENG 201 provides interested students with the opportunity to continue their exploration of expository writing with the added benefit of learning to write for distinct audiences (format, language, level of specificity, length, and documentation style). Students will also learn effective editing and revising techniques, discipline-specific writing strategies, and how to extend their mastery of rhetorical strategies. While ENG 201 may be taught with the focus in a variety of disciplines (science writing, gender studies, literary criticism, writing in the humanities, business writing, political geography, philosophy, and so on), every discipline will allow students the opportunity to learn how to communicate with specialized audiences and adapt content to the needs of varying rhetorical situations.

ENG 205 Technical Editing

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on editing technical documents of varying lengths and types, from memos to product manuals. Emphasizes consistency, readability, and conformity to an organization's style manual. Introduces conventions governing content, organization,

presentation, and style of technical documents. Covers how to develop a style manual. Introduces concepts of project cycle management, working as part of a documentation team, and collaboration with technical experts.

ENG 221 Creative Writing I

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 (Grade of C or higher)

Teaches techniques for creative writing. Explores imaginative uses of language through creative genres (fiction, poetry, literary nonfiction) with emphasis on the student's own unique style, subject matter, and needs.

ENG 222 Creative Writing II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 221

Provides continued development of written expression in such forms as poetry, fiction, and/or nonfiction writing.

ENG 226 Fiction Writing

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 (Grade of C or higher)

Teaches techniques for creating fiction, including the study and appreciation of the language and forms of the short story.

ENG 227 Poetry Writing

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 (Grade of C or higher)

Teaches techniques for creating poems, including study of figurative language, forms, and sound patterns of poetry.

ENG 230 Creative Nonfiction

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 (Grade of C or higher)

Teaches students to incorporate literary techniques into factual writing. Enables the student to survey a wide range of readings and analyze form and content. Includes critical review, biographical profiles, travel writing, and memoirs. Provides the opportunity for students to write and review their own nonfiction in a supportive, constructive setting.

ENG 231 Literary Magazine

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 (Grade of C or higher)

Teaches the student the editorial process involved in preparing a literary magazine for publication. Covers the process of selection of material (fiction, nonfiction, poetry, and visual art) to be published, as well as design, layout, and production to prepare a manuscript for publication. Enables the student to produce a literary magazine.

ENG 235 Rhetoric & Propaganda

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 (Grade of C or higher)

Examines classical and modern theories of rhetoric, understood as effective, ethical means of persuasion, and the ways in which propaganda departs from these means. Enables the student to apply theories of rhetoric and propaganda to examples of presidential rhetoric, Nazi and Soviet propaganda, and other examples of persuasive writing. Includes the study of visual rhetoric with students constructing criteria for identifying visual propaganda, and studying the complex relationship, historically and in the present, between propaganda, democracy, advertising, and mass media.

English as a Second Language Courses**ESL 011 Basic Pronunciation**

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: appropriate placement score

Provides listening and speaking activities that help students recognize and produce English vowel and consonant sounds and common stress and intonation patterns.

ESL 012 Intermediate Pronunciation

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: appropriate placement score

Provides listening, speaking, and reading activities that help students recognize and produce a variety of stress and intonation patterns in English. Helps students to produce problematic English sounds.

ESL 021 Basic Grammar

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: appropriate placement score

Assists the student in mastering basic structures in English grammar through oral and written practice.

ESL 022 Intermediate Grammar

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: ESL 021 (Grade of C or higher) or appropriate placement score

Reviews basic grammar and introduces intermediate structures. Provides integrated practice through a variety of oral and written exercises.

ESL 023 Advanced Grammar

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: ESL 022 (Grade of C or higher) or appropriate placement score

Reviews intermediate grammar. Introduces advanced structures with increased emphasis on written communication.

ESL 031 Basic Listening & Speaking

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: appropriate placement score

Provides listening and speaking activities that help the student communicate more competently. Provides practice with pronunciation, vocabulary, and basic grammatical patterns.

ESL 032 Intermediate Listening & Speaking

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: ESL 031 (Grade of C or higher) or appropriate placement score

Teaches listening, pronunciation, and conversation skills. Increases speed and accuracy in speaking through free and guided conversational practice.

ESL 041 Basic Reading

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: appropriate placement score

Improves comprehension of simple written texts through vocabulary building and reading strategies.

ESL 042 Intermediate Reading

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: ESL 041 (Grade of C or higher) or appropriate placement score

Helps the student read more quickly and accurately and understand a variety of intermediate level reading material.

ESL 043 Advanced Reading

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: ESL 042 (Grade of C or higher) or appropriate placement score

Prepares the student for academic reading assignments. Assists the student to read more accurately and critically through the development of vocabulary knowledge and reading skills. Introduces research skills.

ESL 052 Intermediate Composition

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: appropriate placement score

Introduces the fundamentals of paragraph organization and development. Assists the student in developing sentence variety and grammatical competency within well-organized paragraphs.

ESL 053 Advanced Composition

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: ESL 052 (Grade of C or higher) or appropriate placement score

Reviews paragraph organization and develops the skill of writing essays using selected rhetorical modes. Stresses accurate use of advanced grammatical structures. Includes summarizing, paraphrasing, and research writing.

ESL 061 Vocational ESL I

2 Credit Hours • 30 Contact Hours (Lecture)

Teaches limited English vocational students basic communication skills in preparation for vocational training and work.

ESL 062 Vocational ESL II

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: ESL 061

Provides intermediate to advanced level English language learners with instruction in language skills for vocational training and employment.

Environmental Science Courses

ENV 101 Introduction to Environmental Science: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: CCR 092 (Grade of C or higher)

Provides an introduction to the basic concepts of ecology and the relationship between environmental problems and biological systems. Includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. Using a holistic approach, students will study how the foundations of natural sciences interconnect with the environment. This course includes laboratory experience.

Ethnic Studies Course

ETH 200 Introduction to Ethnic Studies: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces students to the issues of race and ethnicity. Emphasizes ethnic relations in the United States as it pertains to four major groups: Americans of African, Asian, Latino and Native descent. Explores issues of racial and ethnic identity, racism and discrimination, stereotyping, prejudice, segregation, colonialism, integration and acculturation.

ETH 224 Introduction to Chicano Studies

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisites: CCR 092

Introduces students to skills development in multicultural education. Covers Chicano history, migration and labor, education, law and Chicano culture.

Farrier Science Courses

FAS 100 Farrier Science I

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Grading: S/U only

Focuses on horses from evolution to the present with emphasis on existing breeds and shoeing requirements. Course also covers behavior patterns of horses, proper handling and safety, need for and frequency of shoeing, anatomy and physiology of the lower leg, angles, hoof preparation, shoe selection, shaping, and basic techniques.

FAS 110 Farrier Science II

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: FAS 100, FAS 120 or concurrent enrollment

Grading: S/U only

Focuses on corrective shoeing for pleasure horses and racehorses. Emphasizes anatomy of horses, physiology of the

lower leg, preliminary examination, and natural angles of the legs, hoof preparation, and normal shoeing.

FAS 120 Farrier Science III

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: FAS 110 or concurrent enrollment

Grading: S/U only

Introduces special purpose shoeing for racehorses, trail horses, etc. Examines corrective showing, shoeing requirements for various breeds, special purpose plating, special equipment, and public relations.

FAS 130 Master Farrier I

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: FAS 120

Grading: S/U only

Continues the basic farrier course. Enables the Master student to assist the instructor during both theory and laboratory sessions by evaluating basic course students in the process of shoe shaping, analysis of gaits, and proper horse handling.

FAS 140 Master Farrier II

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: FAS 130

Grading: S/U only

Allows Master students to assist the instructor in teaching anatomy of horses, physiology of the lower leg, natural angle of the leg, and hoof preparation. Incorporates student research and reports on assigned subjects.

FAS 150 Master Farrier III

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: FAS 140

Grading: S/U only

Enables the student to demonstrate skill in all phases of horseshoeing, especially in the area of corrective shoeing and unusual hoof repair.

Finance Courses

FIN 106 Consumer Economics

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on consumer effectiveness based on consumer choice theory, maximizing income through informed decision making, product utility, and customer satisfaction.

FIN 201 Principles of Finance

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ACC 101 or ACC 121, MAT 112

Provides factual knowledge of financial institutions and the monetary system used in the United States in relationship to the global economy. Examines tools and techniques such as capital budgeting, time value of money, analysis of financial statements, cost of capital, and risk analysis to analyze business decisions, plan and determine project and firm value, and evaluate sources of financing.

Fire Science Technology Courses

FST 100 Firefighter I

9 Credit Hours • 202.5 Contact Hours (Lecture/Lab Combination)

Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard.

FST 101 Firefighter II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Note: Must have faculty consent to enroll

Addresses the requirements necessary to perform at the second level of progression as identified in National Fire Protection Association (NFPA) 1001, Fire Fighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level II, standard.

FST 102 Principles/Emergency Services

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an overview to fire protection; career opportunities in fire protection and related fields; philosophy and history of fire protection/service; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government ; laws and regulations affecting the fire service; fire service nomenclature ; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics.

FST 103 Fire Behavior and Combustion

3 Credit Hours • 45 Contact Hours (Lecture)

Explores the theories and fundamentals of how and why fires start, spread and are controlled.

FST 105 Building Construction for Fire Protection

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The elements of consideration and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.

FST 106 Fire Prevention

3 Credit Hours • 45 Contact Hours (Lecture)

Provides fundamental information regarding the history and philosophy of fire prevention, organization and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education.

FST 107 Hazardous Materials Operations (Level I)

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces hazardous materials incidents, recognizing and identifying hazardous materials, planning response, implementing response procedures, decision making, and continued evaluation at the awareness and operation level.

FST 109 Occupational Safety & Health for Fire

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue. This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout emergency services.

FST 110 Job Placement & Assessment

3 Credit Hours • 52.5 Contact Hours (30 Lecture, 22.5 Lecture/Lab Combination)

Addresses all aspects of the Fire Service entrance examination process and especially emphasizes various components of the exam, including the written, physical abilities, and oral interview. The objective of this class is to help increase the entrance firefighter candidate's chance of obtaining a career in the Fire Service.

FST 150 Introduction to Fire Prevention Education

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on conducting prevention and education needs assessment, targeting audiences, development and delivery of

prevention and education programs. Includes methods of conducting fire prevention and safety inspections.

FST 151 Driver-Operator

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the student with the basic knowledge and skills to safely operate fire apparatus according to the NFPA professional standard. Enables the student to display and demonstrate knowledge of fire apparatus, operation of apparatus, pumps and pumping, hydraulics calculations, maintenance, and testing.

FST 160 Candidate Physical Abilities Test Prep

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Grading: S/U only

Prepares students for the CPAT test and other related fitness testing for entry level firefighters. The course will focus on aerobics and strength training to assist students in passing a CPAT test or any related fitness entry level test. Students will also be trained on how to use various firefighting tools as they pertain to how the tools will be used in the CPAT or other related entry level fitness test.

FST 201 Instructional Methodology

3 Credit Hours • 45 Contact Hours (Lecture)

Identifies the roles and responsibilities of the fire service instructor. Includes oral communication skills, concepts of learning, planning and development of lesson plans and instructional materials and delivery methods, testing and evaluations, records and reports, and demonstration of instructional abilities. Fire Instructor I State Certification is possible.

FST 202 Strategy & Tactics

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.

FST 203 Fire Hydraulics & Water Supply

3 Credit Hours • 45 Contact Hours (Lecture)

Provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems.

FST 204 Principles of Code Enforcement

3 Credit Hours • 45 Contact Hours (Lecture)

To provide the students with the fundamental knowledge of the role of code enforcement in a comprehensive fire prevention program.

FST 205 Fire Investigation I

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes.

FST 206 Fire Company Supervision & Leadership (Fire Officer I)

3 Credit Hours • 45 Contact Hours (Lecture)

Covers fire department organization, management philosophies, leadership traits, time management, group dynamics, communications, motivation counseling, conflict resolution, and employee discipline. Meets components of Fire Officer I State Certificate.

FST 207 Firefighting Strategy & Tactics II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: FST 202

Focuses on tactics and strategies associated with transportation emergencies and fires, high-rise fires, below-ground incidents, confined space emergencies, and special rescue situations.

FST 209 Fire Protection Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers.

FST 251 Legal Aspects of Fire Service

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the Federal, State, and local laws that regulate emergency services, national standards influencing emergency service, standard of care, tort, liability, and a review of relevant court cases.

FST 252 Fire Investigation II

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the student with advanced technical knowledge on rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation, and testifying.

FST 253 National Incident Management System (NIMS)

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: FST 202

Focuses on the National Incident Management System including fire ground management and resource management. Multiagency coordination systems are discussed, organization preparedness for large scale emergencies, Communication and information are addressed. The course concludes with a review of the National Response Plan.

FST 254 Hazardous Materials Technician Level

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: FST 107

Focuses on techniques associated with hazardous materials mitigation, the use of monitoring devices, components of a mitigation teams, command and control of hazardous materials incidents.

FST 255 Fire Service Management

3 Credit Hours • 45 Contact Hours (Lecture)

Serves as the basic management course for present and potential members of the fire service, and for students and members of other fire science-related professions. Introduces the student to current management practices and philosophies and real-world applications from the supervisor's point of view. Covers decision making/problem solving, communication skills, conflict resolution, creativity and innovation, as well as the role of the manager in supervising personnel and programs, e.g., motivation, leadership, counseling, ethics, and handling discipline and grievances.

FST 257 Fire Department Administration

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on the operations of volunteer and combination fire departments, compliance with standards and ordinances, funding, recruiting, hiring and retaining employees, funding and budgeting, organizational planning, and public relations.

FST 258 Wildland Fire Incident Management & Organization

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces and develops supervisory and decision-making skills for fireline management individuals. Covers (1) First Attack Incident Commander, (2) Crew Supervisor, (3) Incident Commander Multi-resource, and (4) Task Force/Strike Team Leader. All four courses are certifiable by the Incident Command System under NIMS and recognized by the National Wildfire

Coordinating Group. Covers fireline safety, size-up, incident planning, ordering, tactics, strategies, and administrative duties.

FSW 259 Wildland Firefighting Strategy & Tactics

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on management of uncontrolled fire burning, urban/wildland interface, strategy and tactics used in controlling wild land fires, prevention methods, and incident command practices.

Fire Science Wildland Courses

FSW 100 S-190 Introduction to Wildland Fire Behavior

1 Credit Hour • 15 Contact Hours (Lecture)

Provides instruction in the primary environmental factors that affect the start and spread of wildfire and recognition of potentially hazardous situations. This course can be taught in conjunction with or prior to Firefighting Training S-130.

FSW 101 S-130 Firefighting Training

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Provides entry-level firefighter skills. A version of the L-180, Human Factors on the Fireline, is included as part of the course. Credit should be issued for S-130.

FSW 102 S-131 Firefighter Type I

.5 Credit Hours • 7.5 Contact Hours (Lecture)

Designed to meet the training needs of the Firefighter Type I. It contains several tactical decision modules designed to facilitate learning the objectives and class discussion. This course is designed to be interactive in nature. Topics include fireline reference materials, communications, and tactical decision making.

FSW 103 D-110 Dispatch Recorder with Introduction to Ross

1 Credit Hour • 15 Contact Hours (Lecture)

Trains potential dispatch recorders on the structure of an expanded dispatch organization and how to effectively perform within that organization. Course will provide the student with a working knowledge of the purpose and process of completing the resource order and other dispatch forms. It will also provide instruction on established dispatch procedures.

FSW 104 I-100 Introduction to ICS

.25 Credit Hours • 3.75 Contact Hours (Lecture)

Address the ICS organization basic terminology, and common responsibilities. It provides a foundation upon which to enable entry-level personnel to function appropriately in the performance of incident-related duties. For students continuing through more complex ICS modules, this course may be used as pre-course work.

FSW 105 L-180 Human Factors on the Fire Line

.25 Credit Hours • 3.75 Contact Hours (Lecture)

Designed for unit-level supervisors to use when delivering orientation training to new crewmembers. Presentation of the course involves a few short lecture segments, but the primary content is delivered by video and is supported with small group exercises. Topics include: situation awareness, basic communication responsibilities, attitude and stress barriers, decision-making processes, and teamwork principles.

FSW 140 S-200 Initial Attack Incident Commander

1 Credit Hour • 15 Contact Hours (Lecture)

Designed to meet the training needs of the ICT4. It is presented in a lecture/discussion format and supplemented with group exercises. The six instructional units cover: Readiness and Mobilization; Size-up, Planning, and Ordering; Deployment and Containment; Administrative Requirements; and Post-Fire Evaluation.

FSW 141 S-203 Introduction to Incident Information

2 Credit Hours • 30 Contact Hours (Lecture)

Provides students with the knowledge and skills they need to serve as type 3 information officers (IOF3). It touches on virtually all aspects of establishing and maintaining an incident information operation, communicating with internal and external audiences to handling special situations.

FSW 142 S-211 Portable Pumps & Water Use

1.5 Credit Hours • 26.25 Contact Hours (15 Lecture, 11.25 Lecture/Lab Combination)

Consists of three areas: supply, delivery, and application of water. Students will be required to demonstrate their knowledge of correct water use, basic hydraulics, and equipment care. The module requires set up, operation, and maintenance of pump equipment. To receive credit for this course, students must have modules observed and approved.

FSW 143 S-212 Wildfire Chain Saws

1.5 Credit Hours • 30 Contact Hours (7.5 Lecture, 22.5 Lecture/Lab Combination)

Provides introduction to the function, maintenance and use of internal combustion, engine-powered chain saws and their tactical wildland fire application. Modules support entry-level training for firefighters with little or no previous experience in operating a chain saw and provides hands-on cutting in surroundings similar to fireline situations.

FSW 144 S-215 Fire Operations in the Wildland/Urban Interface

2 Credit Hours • 30 Contact Hours (Lecture)

Designed to assist structure and wildland firefighters who will be making tactical decisions when confronting wildland fire that threatens life, property, and improvements in the wildland/urban interface. Instructional units include interface awareness, size up, initial strategy and incident action plan, structure triage, structure protection tactics, incident action plan assessment and update, follow up and public relations, and firefighter safety in the interface.

FSW 145 S-230 Crew Boss

1.5 Credit Hours • 22.5 Contact Hours (Lecture)

Designed to produce student proficiency in the performance of duties associated with the single-resource boss position from initial dispatch through demobilization to the home unit. Topics include operational leadership, preparation and mobilization, assignment preparation, risk management, entrapment avoidance, safety and tactics, offline duties, demobilization and post-incident responsibilities.

FSW 146 S-231 Engine Boss (Single Resource)

1 Credit Hour • 15 Contact Hours (Lecture)

Designed to produce student proficiency in the performance of the duties associated with engine boss, single resource (ENGB). Topics include engine and crew capabilities and limitations, information sources, fire size up considerations, tactics and wildland/urban interface.

FSW 147 S-234 Ignition Operations

2 Credit Hours • 30 Contact Hours (Lecture)

Provides training in the functional roles and responsibilities connected with firing operations. The course covers planning, ignition procedures and techniques, and equipment applicable to wildland and prescribed fire. This course also addresses the role of the ignition specialist or firing boss as the organization manages escalation from a non-complex to a complex situation.

FSW 148 S-248 Status/Check-in Recorder

1 Credit Hour • 15 Contact Hours (Lecture)

Designed to introduce students to the tools and techniques used to perform the duties of status check-in recorder (SCKN). The course provides an overview of what a student can expect if dispatched to an incident. Each student will need access to a

computer that has the most current incident automation software (currently I-Suite).

FSW 149 S-260 Interagency Incident Business Management

1 Credit Hour • 15 Contact Hours (Lecture)

Designed to meet the general training needs of all positions for which an understanding of interagency incident business management is required. The Interagency Incident Business Management Handbook, PMS 902, is used as the primary job aid to supplement this course. It provides the basic policy and direction for incident business management.

FSW 150 S-261 Applied Interagency Incident Business

1 Credit Hour • 15 Contact Hours (Lecture)

Designed for entry-level finance positions. It is designed to be taken after completion of Interagency Business Management (S-260).

FSW 151 S-270 Basic Air Operations

1 Credit Hour • 15 Contact Hours (Lecture)

Covers aircraft types and capabilities, aviation management and safety for flying in and working with agency aircraft, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas.

FSW 152 S-271 Helicopter Crew Member

2 Credit Hours • 30 Contact Hours (Lecture)

Provide student proficiency in all areas of the tactical and logistical use of helicopters to achieve efficiency and standardization. Topics include: aviation safety, aircraft capabilities and limitations, aviation life support equipment, aviation mishap reporting, preflight checklist and briefing/debriefing, aviation transportation of hazardous materials, crash survival, helicopter operations, helicopter field exercise. This course contains the follow OAS modules: A-101, A104, A-105, A-106, A-108, A-110, A-113, A-209, and A-210.

FSW 153 S0-290 Intermediate Wildland Fire Behavior

2 Credit Hours • 30 Contact Hours (Lecture)

Designed to prepare the prospective supervisor to undertake safe and effective fire management operations.

FSW 154 FI-210 Wildland Fire Origin & Cause Determination

2.5 Credit Hours • 37.5 Contact Hours (Lecture)

Provide a consistent knowledge and skill base for the Wildland Fire Origin and Cause Determination Investigator (INVF). The concepts taught in this course will help an INVF perform at an acceptable level on a national basis without regard to geographic boundaries. The course is presented by lecture, electronic presentations, field exercises, and class discussion.

FSW 155 I-200, IS-200, Q-436 Basic ICS: ICS for Single Resources and Initial Action Incidents

1.5 Credit Hours • 22.5 Contact Hours (Lecture)

Introduce students to the principles of the Incident Command System (ICS) associated with incident-related performance. Topics include leadership and management, delegation of authority and management by objectives, functional areas and positions, briefings, organizational flexibility, transitions and transfers. This course was developed in conjunction with the US Fire Administration (Q-463) and the Emergency Management Institute (IS-200). These courses are built on the same lesson objectives and content as the NWCG I-200 course and are interchangeable; they are all National Incident Management System (NIMS) compliant.

FSW 156 L-280 Followership/Leadership

1 Credit Hour • 15 Contact Hours (Lecture)

Combines one day of instruction followed by a second day with students working through a series of problem-solving events. This course is for individuals preparing to step into a leadership role. Topics include: leadership values and principles, transition challenges for new leaders, situational leadership, team cohesion factors, and ethical decision-making.

FSW 200 S-300 Extended Attack Incident Commander

1 Credit Hour • 15 Contact Hours (Lecture)

Designed to meet the training needs of the incident commander type 3 (CT3). The six instructional units cover Information Gathering, Planning, Supporting Organization, Operations, Transitioning, and Demobilization/Administrative Requirement.

FSW 201 S-330 Task Force/Strike Team Leader

1.5 Credit Hours • 22.5 Contact Hours (Lecture)

Designed to meet the training requirements outlined in the Wildland Fire Qualification System Guide and the Positions Task Books (PTB) developed for the positions of Task Force Leaders and Strike Team Leader. Examples and exercises in this package are specific to wildland fire suppression.

FSW 202 S-336 Tactical Decision Making in Wildland Fire

2 Credit Hours • 30 Contact Hours (Lecture)

Designed to meet training requirements in the Operations Section of the Incident Command System. Examples and exercises in this package are specific to wildland fire suppression.

FSW 203 S-339 Division/Group Supervisor

1 Credit Hour • 15 Contact Hours (Lecture)

Prepares the student to perform in the role of division/group supervisor. It will provide instruction in the support of the specific tasks of division/group supervisor. Topics include division/group management, organizational interaction, and division operations.

FSW 204 S-359 Medical Unit Leader

1 Credit Hour • 15 Contact Hours (Lecture)

Designed to provide the skills and knowledge needed to perform in the role of medical unit leader (MEDL). Topics include gathering information, organizing, supervising, evaluating, documenting, and demobilizing the medical unit.

FSW 205 S-390 Introduction to Fire Behavior Calculations

2 Credit Hours • 30 Contact Hours (Lecture)

Develop knowledge and skills required for effective fire behavior prediction. This course introduces fire behavior calculations by manual methods, using nomograms. The student gains an understanding of the determinants of fire behavior through studying input (wind, slope, fuels, and fuel moisture.) Students also learn how to interpret fire behavior output. Local and regional environmental differences are stressed.

FSW 206 I-300 Intermediate ICS for Supervisors & Expanding Incidents

1.5 Credit Hours • 22.5 Contact Hours (Lecture)

Provides a greater description and detail of the Incident Command System (ICS) organization and operations, including application of essential principles and description of air operations. This course comprises five of the 17 instructional modules making up the ICS curriculum. These include Organization and Staffing (Module 7), Organizing for Incidents or Events (Module 8), Incident Resources Management (Module 9), Air Operations (Module 10), and Incident and Event Planning (Module 11).

FSW 240 S-440 Planning Section Chief

1 Credit Hour • 15 Contact Hours (Lecture)

Designed to meet a portion of the training needs of the planning section chief type 2 (PSC2). Topics include information gathering, strategies and briefings, incident action plan (IAP), interactions, forms, documents, supplies, demobilization, and an optional technology section. In the final module, the students observe a simulated planning meeting and use the information derived to find errors in an incident action plan (IAP).

FSW 241 I-400 Advanced ICS for Command & General Staff & Complex Incidents

1.5 Credit Hours • 22.5 Contact Hours (Lecture)

Directs the student towards an operational understanding of large single-agency and complex multi-agency/multi-jurisdictional incident responses. Presented in an intense participative classroom environment, this course focuses on area command

and staff issues, as well as the planning, logistical and fiscal considerations associated with complex incident management and interagency coordination. This course comprises four of the 17 instructional modules making up the ICS curriculum. These include Command and General Staff (Module 12), Unified Command (Module 13), Major Incident Management (Module 14), Area Command (Module 15).

FSW 242 M-480 Multi-Agency Coordinating MAC Group

.5 Credit Hour • 7.5 Contact Hours (Lecture)

Designed to train and orient potential Multi-Agency Coordinating (MAC) Group members and MAC Group Coordinators. It will provide the students with a working knowledge of the Multi-Agency Coordination System and the organization that helps support MAC Group activities.

Foreign Languages Courses

See specific language for a list of courses offered. American Sign Language, Arabic, Chinese, French, German, Italian, Japanese, Russian, Spanish.

French Courses

FRE 101 Conversational French I

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces beginning students to conversational French and focuses on understanding and speaking French. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

FRE 111 French Language I

5 Credit Hours • 75 Contact Hours (Lecture)

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

FRE 112 French Language II

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: FRE 111 (Grade of C or higher)

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

FRE 211 French Language III: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: FRE 112 (Grade of C or higher)

Continues French I and II in the development of increased functional proficiency in listening, speaking, reading, and writing the French language.

FRE 212 French Language IV: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: FRE 211 (Grade of C or higher) or concurrent enrollment

Continues French I, II, and III in the development of increased functional proficiency in listening, speaking, reading, and writing the French language.

Geographic Information Systems Courses

GIS 100 GIS Fundamentals

3 Credit Hours • 45 Contact Hours (Lecture)

Introduce students to an overview of geospatial technology. Students will be introduced to the concepts of spatial thinking and analysis through the exploration of GIS, Remote Sensing, web-based maps and mobile mapping. Emphasis is placed on understanding the fundamental aspects of these technologies and how they are currently being applied across a variety of disciplines.

GIS 101 Introduction to Geographic Information Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CIS 118 or CSC 105

Surveys the development, application and use of geographic information systems (GIS).

GIS 110 Introduction to Cartography

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CSC 105

Examines a broad range of map types, emphasizing maps as a communication system with both symbology and specific organizational hierarchies. Discussion and demonstration focuses on essential cartographic principles and practices used for designing maps, with emphasis on cartographic principles resulting in the effective map communication, qualitative messages, and quantitative information.

GIS 131 Global Positioning Systems for Global Information Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Introduces the terminology, hardware, and technological principles of GPS. Students will receive an introduction in the fundamentals of using a basic hand-held GPS unit. Data will be integrated with pre-existing spatial data. Fundamentals of mapping and map reading will be covered. Garmin GPS units will be used initially, followed with Trimble GeoExplorers and Pathfinder Office software. Final student projects integrate GPS data within ArcView projects.

GIS 150 Relational Database Management Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Develop methods and procedures for geographic information systems data, data management, and the complex relationships between data files and a GIS. This course teaches several essential components and methods of successful data and project data management. The objective is to give students a basic understanding of databases, how they are used in a professional GIS environment, and practical experience in designing and implementing the GIS database portion of a GIS.

GIS 165 GIS Project Management

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Examine the relationships of geographic information systems projects to information technologies for organization planning and decision making. Course considers project business process, project management methods and roles of project participants.

GIS 205 GIS Applications

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Develops student competency in web based geospatial information technologies. This course introduces students to concepts and processes of software based geospatial services to deliver geospatial information over networks. The course provides a comprehensive discussion of theory and applied technology of GIS software information services as well as integration of geospatial services into GIS applications.

GIS 207 Introduction to ArcView 3D Analyst

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Grading: S/U only

Shows you how to use ArcView 3D Analyst to display, create, and analyze spatial data in three dimensions.

GIS 208 Introduction to ArcView Network Analyst

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Incorporates a six-module course that teaches the student how to prepare data for network analysis, create routes and directions, find the closest facility, and define service areas.

GIS 209 Introduction to ArcView Spatial Analyst

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Grading: S/U only

Explores how this ArcView GIS software extension allows the use of raster and vector data in an integrated environment.

GIS 210 Intermediate GIS

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Builds upon the spatial analysis principles and concepts of GIS 101. Students work with more advanced analytical tools and develop skills in spatial problem solving.

GIS 211 Spatial Data Modeling & Analysis

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Prerequisite: GIS 101

Examine techniques for modeling and analyzing spatial data in a GIS. Topics include defining object models and geodatabases as they are used to access geographic data and build data models, creating new information from existing data through data classification, geoprocessing, presentation, and display and using raster analysis to display and analyze spatial data.

GIS 212 Remote Sensing & Digital Image Processing

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Prerequisite: GIS 101

Course description changed to "Introduce concepts and procedures used in remote sensing with an emphasis on integration of aerial and satellite imagery into GIS applications. Apply the science of remote sensing and imagery interpretation to understand local to global earth observation characteristics based on remotely sensed data and logical interpretation.

GIS 221 Community Assessment & Analysis

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Provides an in-depth examination of problems currently facing a variety of public and private institutions in our region, and explores a variety of ways these problems are solved using a GIS. Students learn advanced mapping techniques and analysis methods in projects they select.

GIS 225 Spatial Analyst Agriculture: GIS Approach

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Incorporates a six-module course that demonstrates the use of spatial analysis to assist agriculturists in the decision-making system - also known as precision farming.

GIS 226 Spatial Hydrology – ArcView GIS

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GIS 101

Grading: S/U only

Provides an introduction to the synthesis of GIS and hydrology, a subject called spatial hydrology. In this course you will study hydrology from a GIS perspective, developing new ideas and problem-solving methods in hydrology using the spatial data and functions provided by GIS. You will also learn to present GIS data in a form that supports conventional hydrologic analysis methods.

GIS 280 Internship

2-4 Credit Hours • 45 Contact Hours per credit hour (Internship)

Prerequisite: GIS 101 and permission of department chair

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.

Geography Courses

GEO 105 World Regional Geography: SS2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 (Grade of C or higher)

Examines the spatial distribution of environmental and societal phenomena in the world's regions; environmental phenomena may include topography, climate, and natural resources; societal phenomena may include patterns of population and settlement, religion, ethnicity, language, and economic development. Analyzes the characteristics that define world regions and distinguish them from each other. Examines the relationships between physical environments and human societies. Examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions.

GEO 106 Human Geography: SS2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 (Grade of C or higher)

Introduces students to geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. Examines the relationships between physical environments and human societies.

GEO 111 Physical Geography – Landforms: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: CCR 092 (Grade of C or higher)

Introduces students to the principles of Earth's physical processes, emphasizing landforms, soils, and hydrology. Examines the formation and distribution of landforms, such as mountains, valleys, and deserts, and their shaping by fluvial and other processes. The course incorporates an integrated process of lectures, discussion, and laboratory assignments.

GEO 112 Physical Geography – Weather & Climate: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: CCR 092 (Grade of C or higher)

Introduces the principles of meteorology, climatology, world vegetation patterns, and world regional climate classification. Includes investigating the geographic factors which influence climate such as topography, location, elevation, winds, and latitude. Incorporates an integrated process of lecture, discussion and laboratory assignments.

Geology Courses

GEY 108 Geology of U.S. National Parks: SC2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MAT 050 or concurrent enrollment

Explores significant geologic features and the processes that create them using examples and case studies from the U.S. National Park System. Weathering and erosional landforms, caves and reefs, coasts, glaciers, volcanoes, and complex mountains are discussed. Fundamental geologic concepts including plate tectonics, deep time, and rock classification are introduced and incorporated throughout the course.

GEY 111 Physical Geology with Lab: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: MAT 050

Studies the materials of the earth, its structure, surface features, and the geologic processes involved in its development. This course includes laboratory experience.

GEY 112 Historical Geology with Lab: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: MAT 050

Studies the physical and biological development of the earth through the vast span of geologic time. Emphasizes the investigation and interpretation of sedimentary rocks, the record of ancient environments, fossil life forms, and physical events, all within the framework of shifting crustal plates. Course includes laboratory experience.

GEY 135 Environmental Geology with Lab: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: MAT 050

Introduces the subject of geology as it relates to human activities. Geologic hazards such as floods, landslides, earthquakes, and volcanoes are investigated. Mineral, energy, soil, and water resources are discussed in terms of their geologic formation and identification, usage by society, and associated environmental impacts. Land use issues, waste, and pollution are also examined.

GEY 143 The Geology & Evolution of Caves

2 Credit Hours • 30 Contact Hours (Lecture)

Introduces the science of caves. Includes cave formation and evolution, cave decorations (speleothems), and the adaptations of living organisms to life below ground. Incorporates a one-day field trip to a nearby cave system.

GEY 205 The Geology of Colorado

3 Credit Hours • 45 Contact Hours (Lecture)

Covers the geologic history of Colorado, with emphasis on formation of mountain ranges, igneous, sedimentary and metamorphic rock types, ore deposits and landforms. Incorporates field experience and/or class room lectures.

German Courses

GER 111 German Language I

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: CCR 092

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

GER 112 German Language II

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: GER 111 (Grade of C or higher)

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

GER 211 German Language III: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GER 112 (Grade of C or higher)

Continues German Language I and II in the development of increased functional proficiency in listening, speaking, reading, and writing the German language.

GER 212 German Language IV: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: GER 211 (Grade of C or higher)

Continues German Language I, II, and III in the development of increased functional proficiency in listening, speaking, reading, and writing the German language.

Health and Wellness Courses

HWE 100 Human Nutrition

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 050

Introduces basic principles of nutrition with emphasis on personal nutrition. Satisfies nutrition requirement of students entering health care professions.

HWE 103 Community First Aid & CPR

1 Credit Hour • 15 Contact Hours (Lecture)

Prepares the student for certification in CPR and Basic First Aid. Skills will include basic life support, airway obstruction, control of bleeding, shock, and patient care for the unconscious.

HWE 110 Fitness Conditioning & Wellness

2 Credit Hours • 60 Contact Hours (Lab)

Provides the proper techniques and guidelines for a student to develop a personal lifetime program that improves fitness and promotes preventive care and personal wellness. In addition, this course offers instruction in cardiovascular endurance, muscular strength and endurance training, flexibility training, and body composition management to meet individual needs.

HWE 111 Health and Fitness

3 Credit Hours • 45 Contact Hours (Lecture)

Studies health and fitness in the U.S. today. The course will look at personal health issues, managing stress, nutrition and health life styles.

HWE 121 Wilderness First Aid & Outdoor Emergency Care

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: Must have First Responder Certification

Provides more advanced wilderness care for the First Responder or EMT provider.

HWE 124 Fitness & Wellness

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5

Lecture/Lab Combination)

Provides information on fitness and wellness and to serve as a guide to design, implement, and evaluate a complete personal fitness and wellness program. The course integrates the basic components of fitness and wellness in understanding human health in order to achieve well-being. This course offers current information in the health field and provides self-assessments for health risk and wellness behaviors. This includes lifestyle modification, nutrition, weight management, stress management, cardiovascular and cancer risk reduction, exercise and aging, exercise related injury, exercise and the environment, prevention of sexually transmitted diseases, substance abuse (including tobacco, alcohol and other psychoactive drugs), and analysis and interpretation of research publications and web sites in health and wellness.

HWE 129 Wilderness First Responder

4 Credit Hours • 67.5 Contact Hours (45 Lecture, 22.5

Lecture/Lab Combination)

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

HWE 130 Wilderness First Responder Refresher

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: HWE 129

Meets the standards for recertification of a Wilderness First Responder certification. Topics to be included are CPR, patient assessment, trauma, medical, and environmental emergencies. This course is required to maintain a current Wilderness First Responder certification, which must be re-certified every three years.

HWE 237 Exercise, Nutrition & Body Composition

3 Credit Hour • 52.5 Contact Hours (30 Lecture, 22.5 Lecture/Lab Combination)

Discusses the concepts of improved performance in all fitness areas. Emphasis is placed upon updated information associated with nutrition and human performance. Measurement of body composition is used as it correlates to training and diet/exercise programs.

HWE 255 Certified Personal Trainer Preparatory Course

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Provide the student with theoretical knowledge and practical skills in preparation for a nationally recognized personal training certification approved by the Colorado Community College System. These Certifications are limited to the following: ACSM, ACE, NSCA, NCSF, AFAA, and AEA. Upon certification, the student will have the ability to develop and implement exercise programs for healthy populations and/or those individuals with medical clearance to exercise.

Health Professional Courses

HPR 101 Customer Service in Healthcare

2 Credit Hours • 30 Contact Hours (Lecture)

Instructs students in customer service theory and techniques specifically in the healthcare arena. This course will discuss therapeutic communication, conflict resolution, and negotiation, as well as employee/employer relations. Exploration of diverse populations and cultural sensitivity will be addressed.

HPR 102 CPR for Professionals

.5 Credit Hours • 7.5 Contact Hours (Lecture)

Meets the requirement for American Red Cross Professional Rescuer CPR or American Heart Association Basic Life Support for those who work in Emergency Services, Health Care, and other professional areas. Material presented in the course is basic patient assessment, basic airway management, rescue breathing, and CPR for infant, children, and adult patients.

HPR 104 Health Career Opt & Readiness

3 Credit Hours • 45 Contact Hours (Lecture)

Discusses current market trends in the medical profession, professional opportunities, continuing education, and professional affiliations. Discussions regarding resumes, portfolios, letters of inquiry, and interviewing techniques, as well as job search information is provided. This course is primarily informational and provides information to the student about aspect of career choices.

HPR 106 Law & Ethics for Health Professionals

2 Credit Hours • 30 Contact Hours (Lecture)

Introduces student to the study and application medico-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions.

HPR 108 Dietary Nutrition

1 Credit Hour • 15 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 050

Studies the basic principles in clinical practice involved in the assistance of health care. The course will cover factors which influence the nutritional status of individuals, methods of nutritional assessment and support, and diet modification for specific disease states.

HPR 111 Success Seminar

1 Credit Hour • 15 Contact Hours (Lecture)

Explores and engages success strategies for students entering the allied health programs. Included are topics related to support team building, learning styles, study skills, note taking, and test-taking specific to the health care professional programs.

HPR 112 Phlebotomy

4 Credit Hours • 135 Contact Hours (45 Lecture/Lab Combination, 90 Practicum)

Prerequisite: CCR 092

Teaches the duties associated with the practice of venipuncture, capillary puncture, and special collection procedures. Students will have experience with quality control, infection control and safety procedures as well as laboratory computer systems. Students successfully completing this course may apply for a National Phlebotomy Registry Examination.

HPR 113 Advanced Phlebotomy

4 Credit Hours • 135 Contact Hours (45 Lecture/Lab Combination, 90 Practicum)

Prerequisite: HPR 112

Instructs students in advanced phlebotomy techniques to include patients in trauma, neonatal, geriatric, and long term acute care areas. In addition, laboratory procedures taught include specimen processing and advanced point-of-care instrumentation. This course includes a lecture/lab combination that teaches theory and direct application of theoretic content and clinical opportunities for student to master learned skills.

HPR 120 Advanced Cardiac Life Support

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Presents the required material for ACLS completion. It will cover arrhythmias, medications, therapeutic modalities for life threatening arrhythmias, airway management, and other treatment modalities used in cardiac and respiratory arrest.

HPR 130 Pediatric Advanced Life Support

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Provides students the needed information and skills as required by health care agencies for pediatric emergencies.

HPR 140 Orientation to Health Careers (Leadership)

6 Credit Hours • 90 Contact Hours (Lecture)

Compares various health careers, health ethics, and work trait attributes required in the health field. Students will be introduced to leadership skills through theory and participation in community awareness projects. The students will have the opportunity to participate in the student organization HOSA (Health Occupations Students of America).

HPR 178 Medical Terminology

2 Credit Hours • 30 Contact Hours (Lecture)

Introduces the student to the structure of medical terms with emphasis on using and combining the most common prefixes, roots and suffixes. Includes terms related to major body systems, oncology, psychiatry, as well as clinical laboratory and diagnostic procedures and imaging. Class structure provides accepted pronunciation of terms and relative use in the healthcare setting.

HPR 179 Seminar

2 Credit Hours • 30 Contact Hours (Lecture)

Provides students with an experiential learning opportunity.

HPR 190 Basic EKG Interpretation

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Provides instruction for interpretation of EKG strips, anatomy and physiology of the heart, using three-lead monitoring as a guide. Twelve-lead EKG may be discussed.

HPR 208 Advanced Medical Terminology

2 Credit Hours • 30 Contact Hours (Lecture)

Continues from a beginning medical terminology course for the student with emphasis on combining complex prefixes, roots and suffixes. Includes pathophysiology for major body systems. Includes terms related to diagnostic tools per body systems, as well as commonly used medical abbreviations.

Heating, Air Conditioning and Refrigeration Technology Courses

HVA 102 Basic Refrigeration

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Introduces the basic theory of refrigeration systems, components, charging, recycling, and evacuation of refrigeration units.

HVA 105 Electricity for HVAC/R

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Teaches resistance, current, voltage, and power in AC and DC circuits; measurements; computations of series and parallel circuits; circuit analysis and troubleshooting with basic test equipment.

HVA 110 Fundamentals of Gas Heating

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Introduces students to the fundamentals of gas heating. Students work in a classroom and shop environment. Topics include the basics of gas heating systems, operation of gas valves and burners, gas pipe system design, gas piping system code requirements, and basic code requirements for heating systems.

HVA 111 Piping Skills for HVAC

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Studies the different types of tubing and piping materials used in HVAC/R applications. Studies the proper tubing and piping installation methods used in the HVAC/R field. Subjects covered will be the proper cutting and bending procedures including, pipe math and how to make piping offsets. Common types of piping joints will be discussed, including, swaging, flaring, soldering, and brazing. Also covered will be cutting and threading of steel pipe and other alternative mechanical piping connections. Shop projects will include both bench projects and also mock up installation projects.

HVA 112 R-410a

1 Credit Hour • 15 Contact Hours (Lecture)

Note: End of course certification test fee is a separate fee in addition to normal course fees

Enlightens the student on conditions required for proper operation with R-410a.

HVA 113 Refrigerant Recovery Training

1 Credit Hour • 15 Contact Hours (Lecture)

Note: End of course certification test fee is a separate fee in addition to normal course fees

Explains the laws regarding refrigerant recovery. The course includes hands-on use of recovery equipment. Upon successful completion of this course students will be prepared to take the EPA certification test. Test is offered following the class. Test fee is not included in course fee.

HVA 118 Customer Soft Skills (Customer Services and Ethics)

2 Credit Hours • 30 Contact Hours (Lecture)

Introduces the need for outstanding Customer Service Soft Skills. Teaches the student the proper steps that need to be taken to have good customer service skills that will lead to a lasting relationship with the customer.

HVA 120 Green Technology Awareness

1 Credit Hour • 15 Contact Hours (Lecture)

Introduces the student to basic understanding of Green concepts, terminology, systems and the latest in technology. Also provides information on local rebates through local utilities. An end of course assessment – certification test will be given. Test fee is not included in course fee, but is a pass-thru fee.

HVA 132 Air Conditioning & Refrigeration Controls

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Prerequisite: HVA 102 or concurrent enrollment, HVA 105 or concurrent enrollment

Continues HVA 105. The course applies the knowledge of basic electricity to controls related to air conditioning and refrigeration equipment. The course also works on reading and drawing schematic and ladder diagrams.

HVA 141 Sheet Metal Fabrication

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Learn the basics of shop based sheet metal tools and hand tools and how they can be used to create fittings for residential ducting systems. Safety and operation of tools will be stressed. The student will learn to layout and fabricate a furnace plenum, a transition, square and radius elbows and other fittings as time permits.

HVA 142 Residential Air Conditioning

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Prerequisite: HVA 102 or concurrent enrollment, HVA 105 or concurrent enrollment

Details the principles of operation, servicing, and installation of air conditioning systems as they apply to humidifying, cooling, and dehumidifying a residential structure. Basic load calculations will be covered.

HVA 143 Residential HVAC Trouble Shooting

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Prerequisite: HVA 110 or concurrent enrollment

Troubleshooting practical problems and techniques will be covered. Use of computer simulation as well as actual equipment will be utilized.

HVA 146 Residential Load Calculation and Duct Design

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Introduces the importance of equipment sizing by teaching how to properly perform heating and cooling load calculations on residential houses. After determining proper equipment sizing, then demonstrate how to design the ductwork system sizing for proper airflow throughout the house.

HVA 201 Heating For Commercial

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Note: Sophomore standing or faculty consent

Covers hydronic and steam heating systems, including steam, hot water, and forced air-heating systems for commercial buildings.

HVA 204 Direct Digital Controls

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Note: Sophomore standing or faculty consent

Introduces the student to the field of direct digital controls.

HVA 206 International Mechanical Code

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: HVA 110 or concurrent enrollment

Reviews in detail the Uniform Mechanical Code. The course is intended to give those entering the HVAC/R trade, as well as trades people taking certification examinations, a sound knowledge of this code.

HVA 222 HVAC & R Systems Troubleshooting

5 Credit Hours • 82.5 Contact Hours (60 Lecture, 22.5 Lecture/Lab Combination)

Note: Sophomore standing or faculty consent

Studies troubleshooting industrial and commercial heating, ventilating, air conditioning, and refrigeration systems.

HVA 233 Advanced Refrigeration

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Note: Sophomore standing or faculty consent

Builds on the skills acquired in refrigeration fundamentals. The student will have an opportunity to study and to work on rooftop units, ice machines, and commercial reach-in and walk-in coolers.

HVA 241 Advanced Air Conditioning

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Note: Sophomore standing or faculty consent

Studies commercial air conditioning systems to include centrifugal water chillers, air handlers, and building systems.

HVA 245 Commercial Refrigeration and Air Conditioning

5 Credit Hours • 112.5 Contact Hours (Lecture/Lab Combination)

Builds on the skills acquired in refrigeration and air conditioning fundamentals. The student will study commercial air conditioning systems to include rooftop units, water chillers, cooling towers, air handlers and facilities equipment. The student will have an opportunity to study and work on commercial reach-in and walk-in coolers, ice machines, and study the workings of commercial supermarket systems. The student will study and demonstrate how to troubleshoot commercial heating, air conditioning and refrigeration systems.

HVA 251 Building Automation I, Installer

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Prerequisite: ELT 101 or concurrent enrollment

Helps the student with the installation of building automation devices with regard to HVAC equipment.

HVA 252 Building Automation II, Service

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Prerequisite: HVA 251

Covers operating and modifying an installed building automation system. This is a highly interactive course where you will learn and exercise common applications of a building management system.

HVA 253 Building Automation III, Advanced Operations

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Prerequisite: HVA 252

Covers complete set up and programming of a building automation system. The class includes extensive hands-on workshops.

HVA 259 Commercial HVAC System Design

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: HVA 105

Introduces the basics of designing HVAC systems as it relates to commercial buildings. Studying the areas of basic scientific principles relating to HVAC system designs, indoor air quality and comfort, heating and cooling load calculations and HVAC duct system design. Provides a foundation of knowledge related to commercial HVAC systems including what the HVAC designer thinks as they make system, zoning, equipment, and automatic control choices.

HVA 262 Residential Heat Pump Service

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: Sophomore standing or faculty consent

Introduces the student to the fundamentals of heat pump systems. Reverse-cycle refrigeration, four-way valves, air source heat pumps, ground source heat pumps, water source heat pumps, refrigerant line identification, types of metering devices, and liquid-line accessories will be covered. Installation and troubleshooting will also be covered.

HVA 280 Internship

2 Credit Hours • 90 Contact Hours (Internship)

Gives the student an opportunity to apply their course studies in a specific area.

HVA 289 Capstone

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Demonstrate culmination of learning within a given program of study.

History Courses

History courses may be taken in any order

HIS 101 Western Civilization: Antiquity – 1650: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from the prehistoric era to 1650. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

HIS 102 Western Civilization: 1650 – Present: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from 1650 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

HIS 111 The World: Antiquity – 1500: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores a number of peoples, groups, ideas, institutions, and trends that have shaped World History from the prehistoric era to 1500. Reflects the multiple perspectives of gender, class, religion, and ethnic groups in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders to provide a better appreciation for different cultures. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

HIS 112 The World: 1500 – Present: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores a number of peoples, groups, ideas, institutions, and trends that have shaped World History from 1500 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders to provide a better appreciation for different cultures. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

HIS 121 U.S. History to Reconstruction: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores events, trends, peoples, groups, cultures, ideas, and institutions in North America and United States history, including the multiple perspectives of gender, class, and ethnicity, between the period when Native American Indians were the sole inhabitants of North America, and the American Civil War. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline.

HIS 122 U.S. History since the Civil War: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores events, trends, peoples, groups, cultures, ideas, and institutions in United States History, including the multiple perspectives of gender, class, and ethnicity, between the period of the American Civil War and the present. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline.

HIS 203 Civil War Era in American History: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the causes, course, and consequences of the American Civil War, from the Colonial period to the 21st Century, in order to understand the multiple meanings of a transforming event in American history. Students will explore the meanings of the war as defined in many ways: national, sectional, racial, gender, constitutional, individual, social, intellectual, or moral. Students will closely examine four broad themes: the crisis of union and disunion in an expanding republic; slavery, race, and emancipation as national problem, personal experience, and social process; the experience of modern, total war for individuals and society; and the political and social challenges of Reconstruction.

HIS 205 Women in World History: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines the roles, experiences, and contributions of women in world history and explores ways in which women's history modifies the traditional interpretations of historical events.

HIS 206 U.S. Family History & Genealogy

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces genealogical and historical methods, sources, and standards for creating a family history using the broader context of social history—ordinary people's everyday lives. Team-taught by a historian and a genealogist.

HIS 207 American Environmental History: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Traces and analyzes the relationships between Americans and their natural environments throughout the history of the United States. Environmental history interprets the changing ways diverse people have used and viewed their environments over time. Examines the development of conservation movements and environmental policies in modern America.

HIS 208 American Indian History: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Analyzes historical and socio-cultural change for Native Americans from pre-colonial America to the present, emphasizing those processes and relations with non-Native Americans which have contributed to the current conditions.

HIS 209 History of the American Southwest

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Traces and analyzes the cultural and historical development of what is now the southwestern United States, a region defined most by its arid environment and the cultural and political interactions of Southwest Indians, Spanish conquerors, Mexican settlers, late-coming Yankees, artists and artisans, and modern Sunbelt migrants.

HIS 215 Women in U.S. History: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines women's changing roles in American history from the pre-colonial native population to the present. Emphasizes the nature of women's work and the participation of women in the family, political, religious, and cultural activities and in social reform movements.

HIS 218 History of Science & Technology: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the complex relationship between scientific and technological developments and western society and culture. Focuses on the way social and cultural norms can impact scientific or technological progress, and vice-versa, especially in the period since the Scientific Revolution.

HIS 225 Colorado History: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Presents the story of the people, society, and cultures of Colorado from its earliest Native Americans, through the Spanish influx, the explorers, the fur traders and mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state.

HIS 235 History of the American West: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Traces the history of the American West, from the Native American cultures and the frontier experiences of America's earliest, eastern settlers, through the Trans-Mississippi West, across the great exploratory and wagon trails, and up to the present West, be it urban, ranching, reservation, resource management, or industrial. Emphasizes the north and central parts of the West.

HIS 236 U.S. History Since 1945: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on the major political, economic, social, and cultural developments that have shaped modern America from 1945 to the present.

HIS 241 History of the Pikes Peak Region

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Interprets the history of the southern Front Range area, centering on Colorado Springs and the surrounding communities, including the environmental and Native American background; the Spanish, Mexican, and Yankee exploration; Palmer and other developers; and the area's role as a Mecca for miners, tourists, health seekers, athletes, military installations, and religious groups.

HIS 243 History of Modern China: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

This course traces the political, ideological, economic, religious, social, and cultural developments of modern China from the Qing dynasty through the political and economic revolutions of the 20th century.

HIS 244 History of Latin America: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on the major political, economic, social, and cultural influences that have shaped Latin America from pre-European conquest to the present. Emphasizes the early history of Latin America but connects it to the present.

HIS 247 20th Century World History: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions and nation-states from 1900 to the present. Emphasizes the interactions of global regions and nation-states.

HIS 249 History of Islamic Civilization: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Surveys the tenets of Islam and the political, social, and cultural history of the civilizations which embraced it from the 6th century to the modern day. Focuses on the diversity and dynamism of Islamic civilizations through time by looking at legal systems, scientific and artistic accomplishments, philosophical heterogeneity, and political developments

HIS 250 African American History: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the experiences and contributions of African Americans from the colonial period to the present. Emphasizes the social and economic lives and roles of African Americans, their roles in politics and war, their achievements, and movements for self-help and civil rights.

HIS 251 The History of Christianity in the World: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Surveys the history of Christianity and its impact on the world from its Jewish origins in the ancient Mediterranean system, into its European expansion, and ending with its modern global presence. Analyzes foundational theology, the impact of significant events, and the role of key people in their historical contexts. Inspects Christianity's relationship with Judaism, Islam, the Enlightenment, modernity, moral systems and values. Provides students with an appreciation of the broad impact of the faith.

HIS 255 The Middle Ages: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on political, social, cultural, economic and intellectual developments in Europe, Byzantium and the Islamic world from the collapse of Rome through the Renaissance, approximately A.D. 400-1400.

HIS 259 Modern Middle East: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the political, economic, social and cultural development of the Middle East from the late Ottoman Empire to the present. Focuses upon the influences of Islam and Western ideas, diplomacy, and economic involvement upon institutions and ideas of modern Middle Eastern society, while exploring the perspectives of gender, class, race, and ethnicity. Also focuses upon developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

HIS 260 U.S. Foreign Relations History: HI1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Provides an overview of the history of United States foreign relations from the colonial era to the present and includes the pertinent political, military, economic, diplomatic, social, religious, ideological and cultural topics. At various points, issues such as race, class, gender, immigration, expansion, and the environment will be covered. This course also focuses on developing, practicing and strengthening the skills historians use while constructing knowledge in the discipline.

HIS 265 Writing About History: C03

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 122

This course develops the skills of historical writing, including the use of rhetorical devices in persuasive historical arguments, critical analysis of historical problems, writing and revision of multiple drafts, different technologies of research and writing, and evaluation of historical sources for relevance and reliability. Through reading a variety of secondary and primary sources and engaging in several types of historical writing and conversations, students extend their understanding of the conventions of clear and concise writing about history. They also devise strategies to communicate historical information by identifying workable topics, locating and annotating primary and secondary sources in libraries, archives and published materials, and adapting their writing style to communicate with a variety of audiences.

Holistic Health Professional Courses

HHP 125 Feldenkrais Awareness

.5 Credit Hour • 15 Contact Hours (Lab)

Incorporates a series of lessons in how the body functions and how to use it more intelligently. Through gentle and exploratory movements, a student learns to retrain the central nervous system and free oneself from habitual patterns of moving, thinking, and feeling that contribute to stress and disease. Through increased bodily awareness, the student examines ways to move more easily during activities from vigorous sports to breathing, standing and walking.

Hospitality Courses

HOS 112 Baking/Pastry

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Introduces commercial baking and pastry production, nutrition, standard product and equipment identification, and supervisory techniques in the area of food production. The course includes classroom instruction, demonstrations, and actual baking of breads, pastries and desserts.

HOS 121 Food Preparation

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Continues supplying the learner with information regarding a commercial food service environment, standard product and equipment identification, and supervisory techniques in the area of food production. The course includes classroom instruction, demonstrations and applies theory to commercial and institutional food service in an industrial environment, including basic cooking principles, recipes, menu development, and on-the-job training.

HOS 240 Purchasing & Menu Planning

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Introduces the world of food service purchasing. The course initially provides the learner with an overview of the purchasing cycle and describes how to place and receive orders following procedures defined in the marketplace. The course describes the impact of innovative packaging processing on foods, describes the effect technology has on the present food service menu, and discusses concepts that impact the future.

HOS 280 Internship

3 Credit Hours • 135 Contact Hours (Internship)

Note: Must have faculty consent to enroll

Exposes the learner to the practical application of course studies in the hospitality industry. The course consists of practical experience in a hotel, restaurant, convention center, resort, tourism operation, or other professional opportunity in the hospitality industry.

Humanities Courses

Humanities courses may be taken in any order

HUM 103 Introduction to Film Art: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Studies the relationships among film's stylistic systems, narrative systems, and audience reception. Students view, discuss, and critically analyze a variety of films which represent key historical and aesthetic periods as well as a variety of genres and themes. The course incorporates the vocabulary of stylistic systems (for instance, cinematography, editing, and art direction) and narrative systems (for instance, story structure and character motivation) as both relate to the kinds of meanings a film conveys.

HUM 115 World Mythology: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces students to a multidisciplinary approach to world mythology. Common themes are illustrated and connected to religion, philosophy, art, literature, music, and contemporary culture. In addition, students will study various ways of interpreting myth.

HUM 121 Early Civilizations: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces students to the history of ideas that have defined cultures through a study of the visual arts, literature, drama, music, and philosophy. It emphasizes connections among the arts, values, and diverse cultures, including European and non-European, from the Ancient world to 1000 C.E.

HUM 122 Medieval to Modern: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines written texts, visual arts, and musical compositions to analyze and reflect the evolution and confluence of cultures in Europe, Asia, and the Americas from 800 C.E. to 1750 C.E.

HUM 123 The Modern World: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines the cultures of the 17th through the 20th centuries by focusing on the interrelationships of the arts, ideas, and history. Considers the influences of industrialism, scientific development, and non-European peoples.

HUM 131 The Arts & Cultures of Mexico

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces students, through visual arts, music, and literature to attitudes toward the sacred and toward power (political, economic, social, religious) held by various cultures in Mexico from the Pre-Hispanic era to the mid-twentieth century.

HUM 163 Film Criticism

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Considers different approaches to film criticism, including the journalist, humanist, auteurist, genre, social science, historical, and ideological/theoretical approaches. Students will view and analyze films applying each of the critical approaches through class discussion and other assignments.

HUM 164 American Cinema

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces film studies and surveys the American film industry as an art form, as an industry, and as a system of representation and communication. This course explores how Hollywood films work technically, aesthetically, and culturally to re-enforce and challenge America's national self-image.

HUM 201 Twentieth Century American Arts

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on elements common to the arts of film, painting, architecture, literature, and music of 20th century United States. Students study the effects of the economy, business, and industry and traditional North American values and dreams on the arts.

HUM 236 North American Indian Arts

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on North American Indian music, dance, architecture, painting, sculpture, pottery, and fashions through a study of the literature of Indian cultures in North America.

HUM 237 Hispanic Arts of the American Southwest

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines the history, visual arts, and permanency of the Hispanic culture of the American Southwest. Through the study of historical sequences, major artistic expressions dating from 1598, and aspects of literature of the contemporary Hispanic society, students will gain an insight into the Hispanic cultural contributions to the Southwest.

HUM 238 Sacred Images, Sacred Spaces: Southwestern U.S.

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines the historical, social, geographical, and cultural forces that influenced the design and presentation of sacred images in several Southwestern U.S. cultures. Students will study stylistic features of images in various media in relation to the sacred spaces where they are displayed or employed in rituals.

HUM 241 Asian Arts & Cultures

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the most popular religions and philosophies of China, Japan, and India and their relationships to the arts and cultures of Asia. Special emphasis will be placed on Hinduism, Buddhism, and Islam.

Interior Design Courses

IND 100 Interior Design Fundamentals

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 050

An introduction to design elements, principles and theory. Application techniques, emphasizing design relationships and composition, will be explored. Basic skills and techniques of both visual and oral presentations will be introduced.

IND 107 History of Interior Design

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 050

Offers a study of interiors and furnishings from the medieval period to the Revival styles of the mid-eighteenth century to the contemporary classics used in modern interiors today. Study of interior and exterior architectural elements, furniture, design motifs and ornamentation, fine arts and construction methods as it relates to the cultural, political, social, technological and economic conditions of the times.

IND 111 Drafting for Interiors

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Introduces the basic drafting tools and techniques, graphic references and symbols, use of pencil and technical pen. Student learns to draft floor plans and interior elevations. Course also covers basic interior dimensioning and lettering as well as isometric drawing construction for interior components.

IND 113 Perspective & Rendering Technique

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Teaches visual communication techniques, methods of communicating interior design plans, ideas and elements using sketching, 2D and 3D drawing and renderings. Emphasis is placed on 2D and 3D perspective drawings, illustrations and renderings.

IND 117 Interior Textiles

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Study and research of fabric types, fibers, weaves, finishes, construction and dyeing & printing methods for residential and commercial fabrics and carpets. Emphasis is on selection of appropriate and code compliant products for environmental, durability and life safety concerns. Evaluation, selection and specification of textile products to create aesthetic and functional designs appropriate for residential and commercial interiors.

IND 118 Interior Finishes

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Introduction to interior finish materials used as a means of functional and aesthetic application by the interior designer. Develop skills to specify appropriate materials, estimate quantities, develop costs and understand installation and removal associated with residential and commercial finishes, with a focus on sustainability.

IND 120 Interior Design II – Space Planning & Human Factors

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: CAD 105

Develop awareness of human dimensions, spatial organization and the importance of physical and psychological characteristics of people. Ergonomics, building codes, ADA factors and universal design will be studied along with programming methods of gathering and organizing data for solving design problems and creating appropriate spatial relationships & furniture layouts for residential and commercial projects.

IND 151 Residential Design

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: CAD 105, IND 120

Development of a residential studio project, with an emphasis on universal design and sustainability, by implementing the design process. Requires research and application of residential design solutions through space planning, furniture & finish selections & specifications, estimating quantities & costs and understanding budget. Includes development of construction documentation and professional presentation techniques.

IND 152 Commercial Design I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: CAD 105, IND 120

Introduces commercial design space planning and procedures for a variety of commercial project types. Emphasis will be placed on conceptual design, the programming and schematic design process, space planning and design documentation.

IND 161 Intro to Kitchen & Bath Design

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: CAD 105, IND 111

Provides an introduction to Kitchen and Bath Design, applying NKBA guidelines. Students are introduced to an overview of Interior Design principles as they apply to Kitchen and Bath design. One portfolio project is produced using hand-drafting skills. Students are encouraged to produce the project using skills attained in this course.

IND 201 Commercial Design II

4 Credit Hours • 82.5 Contact Hours (15 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: IND 220

Development of a commercial studio project, while applying knowledge of code & ADA requirements, building systems, finish & furniture specifications and sustainability. Requires research and application of commercial design solutions through the design process. Includes development of construction documentation and professional presentation techniques.

IND 205 Professional Practice for Interior Designers

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Introduces processes involved in creating and running a professional interior design business including legal, ethical, practical and professional requirements. Emphasis on business structures and practices, professional documentation and contracts, marketing techniques, job cost estimating, setting up industry accounts and project management methods. Students become familiar with business practices in both commercial and residential design firms and develop business plans and resumes.

IND 211 Interior Construction

4 Credit Hours • 75 Contact Hours (30 Lecture, 45 Lecture/Lab Combination)

Introduces the student to interior building systems and assemblies, construction documents and details, and codes applicable to interior architecture. Student will apply this knowledge to various graphic projects and is encouraged to produce projects using the computer and CAD software.

IND 220 Interior Design III – Materials, Details, Codes, & Specs

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: IND 120

Study of local & national building and fire codes and their application in developing projects with concern for the health, safety and welfare of the public. Understanding and illustrating interior building materials and specifications, interior details and section drawings for custom elements through construction documentation.

IND 225 Lighting Design

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: IND 111

Teaches and applies basic knowledge of interior lighting technology and design. Content includes lamp classifications, color rendition, how lighting sources effect our perception of space, how to compute and control proper lighting levels, and how to communicate design information by means of a reflected ceiling plan and luminaire schedule. Students will be encouraged to produce projects using a variety of computer software applications.

IND 231 Sustainable Design

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Creates an awareness and understanding of ecological issues while emphasizing the use of environmentally friendly materials and resources that do not compromise the effectiveness of the design. This course also investigates the practice of design to reduce the effects on the environment using renewable materials in the design and building for both residential and commercial property. Its emphases are to learn to conserve resources and to reduce the negative impact on the environment.

IND 278 Workshop (Design Portfolio)

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Note: Must have Department Chair permission to enroll

Provides students with an experiential learning opportunity.

IND 280 Internship

1 Credit Hour • 45 Contact Hours (Internship)
Note: Must have Department Chair permission to enroll
 Provides work experience in a business or industry.

IND 288 Practicum

1 Credit Hour • 30 Contact Hours (7.5 Lecture, 22.5 Practicum)
Note: Must have Department Chair permission to enroll
 Provides students with a vehicle to pursue in depth exploration of special topics of interest.

IND 289 Capstone (Advance Design)

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)
Note: Must have Department Chair permission to enroll
 Provides a demonstrated culmination of learning within a given program of study.

Interpreter Prep Program Courses

IPP 121 Aspects of Interpreting I

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ASL 122 (Grade of B or higher), ENG 121
Note: Completion of ASL 123 or concurrent enrollment
 Acquaints the student with the basics of interpreting. This will enable the student to understand what interpreting involves, and the professional requirements for being an interpreter. In this course, the student is introduced to the code of ethics, situation assessment required for effective interpreting, and certification of interpreters.

IPP 122 Aspects of Interpreting II

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ASL 123 (Grade of B or higher), ENG 121, IPP 121 (Grade of B or higher)
Note: Completion of ASL 221 or concurrent enrollment
 Provides a more in-depth study of the field of interpreting, expanding on the basics introduced in IPP 121. Lecture/discussion sessions will address ethical decision-making and cultural issues, as well as the various settings in which interpreters work. Students will have opportunities to observe various professional interpreters throughout the semester.

IPP 125 Oral Transliterating

2 Credit Hours • 30 Contact Hours (Lecture)
Prerequisite: IPP 121, IPP 132 or concurrent enrollment
 Provides the student with the opportunity to develop basic oral communication facilitation skills. The course allows the student the advantage of learning the different techniques in rendering effective oral communication facilitation between consumers.

IPP 131 Text Analysis

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ASL 122 (Grade of B or higher), ENG 121
Note: Completion of ASL 123 or concurrent enrollment
 Focuses on learning and utilization of a sequenced method of preparing for interpreting assignments and analyzing English spoken text. Students will also increase their English and ASL vocabulary and learn to understand cultural implications in those languages.

IPP 132 Interpretation Analysis

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ASL 123 (Grade of B or higher), ENG 121, IPP 131 (Grade of B or higher)
Note: Completion of ASL 221 or concurrent enrollment
 Follows IPP 131 and is a continuation of the work begun in that course. The focus in this course is for students to interpret fully analyzed English texts and to analyze their own interpretations. Students will learn to see what they do well and what needs improvement as well as to develop exercises to improve their work. Students will continue the vocabulary work begun in IPP 131, further increasing English/Sign vocabulary and idioms.

IPP 145 Deaf People in Society

2 Credit Hours • 30 Contact Hours (Lecture)
Prerequisite: ASL 122 (Grade of B or higher), ANT 101 or concurrent enrollment, ENG 121
Note: Completion of ASL 123 or concurrent enrollment
 Expands the student's knowledge of the impact of deafness on the development of language and cognition and the socialization of Deaf individuals in a Hearing World.

IPP 147 Survey of Deaf Culture

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ANT 101, ASL 123 (Grade of B or higher), ENG 121, IPP 145 (Grade of B or higher)
Note: Completion of ASL 221 or concurrent enrollment
 Surveys the factors that contribute to defining Deaf persons as members of a cultural minority. This course will look at the impact of language on the culture as well as the role of norms, values, traditions, and minority groups within Deaf culture. Attention will also be given to identity and membership in Deaf culture.

IPP 205 Educational Interpreting

4 Credit Hours • 60 Contact Hours (Lecture)
Prerequisite: ASL 123 (Grade of B or higher), ENG 121, IPP 121 (Grade of B or higher), IPP 131 (Grade of B or higher)
Note: Completion of ASL 221 or concurrent enrollment, IPP 122 or concurrent enrollment
 Helps students gain insight into the roles of the interpreter/tutor in the mainstream environment, and to recognize the implications of child development and classroom interaction patterns on interpreting. Students also discuss tutoring strategies.

IPP 207 Specialized & Technical Communication

2 Credit Hours • 30 Contact Hours (Lecture)
Prerequisite: ASL 221 (Grade of B or higher), IPP 122 (Grade of B or higher), IPP 132 (Grade of B or higher)
Note: Completion of ASL 222 or concurrent enrollment
 Expands their repertoire of specialized and technical sign terminology and apply them in appropriate contexts.

IPP 225 English to ASL Interpreting

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ASL 221 (Grade of B or higher), COM 115, IPP 132 (Grade of B or higher)
Note: Completion of ASL 222 or concurrent enrollment; must be taken with IPP 227 and IPP 229
 Provides the student an opportunity to further develop interpreting skills from English to ASL.

IPP 227 ASL to English Interpreting

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ASL 221 (Grade of B or higher), COM 115, IPP 132 (Grade of B or higher)
Note: Completion of ASL 222 or concurrent enrollment, must be taken with IPP 225 and IPP 229
 Provides the student an opportunity to build skills in interpreting and transliterating into spoken English from ASL and various contact varieties.

IPP 229 Transliterating

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ASL 221 (Grade of B or higher), IPP 122, IPP 132 (Grade of B or higher)
Note: Completion of ASL 222 or concurrent enrollment; must be taken with IPP 225 and IPP 227
 Provides the student with knowledge of transliterating techniques and ability to develop skills in transliterating spoken English into signed English. The student is introduced to the concept of transliterating and the differences in transliterating and interpreting.

IPP 235 Advanced Interpreting

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: ANT 101, ASL 222, CIS 118 or CSC 105, COM 115, ENG 121, IPP 225, IPP 227, IPP 229 (Grade of B or higher for all prerequisite courses), MAT 107 (or higher)

Note: Should be taken with IPP 279 and IPP 281 in the final semester

Provides the student an opportunity to further develop and refine skills in ASL to English and English to ASL interpretation and transliteration.

IPP 279 Interpreter Seminar

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ANT 101, CIS 118 or CSC 105, COM 115, ENG 121, MAT 107 (or higher)

Note: IPP 235, IPP 281 must be taken concurrently with IPP 279. Must have GPA of B or higher; Grade of B or higher in ASL 222, IPP 225, IPP 227, IPP 229

Grading: S/U only

Provides the student with an open forum to discuss situations arising from interpreter assignments during internship and an opportunity to prepare for entering the interpreting field.

IPP 281 Internship

5 Credit Hours • 225 Contact Hours (Internship)

Prerequisite: ANT 101, CIS 118 or CSC 105, COM 115, ENG 121, MAT 107 (or higher)

Note: IPP 235, IPP 279 must be taken concurrently with IPP 281. Must have GPA of B or higher; Grade of B or higher in ASL 222, IPP 225, IPP 227, IPP 229

Grading: S/U only

Provides field experience interpreting in a supervised educational, community, service agency, or other setting.

Italian Courses

ITA 101 Conversational Italian I

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the first course in a sequence for beginning students who wish to understand and speak Italian. The material includes basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

ITA 102 Conversational Italian II

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the second course in a sequence for students who wish to understand and speak Italian. The material continues to cover basic conversational patterns, expressions, and grammar.

ITA 111 Italian Language I

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: CCR 092

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

ITA 112 Italian Language II

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: ITA 111 (Grade of C or higher)

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

ITA 211 Italian Language III: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ITA 112 (Grade of C or higher)

Continues Italian Language I and II in the development of increased functional proficiency in listening, speaking, reading, and writing the Italian language.

ITA 212 Italian Language IV: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ITA 211 (Grade of C or higher)

Continues Italian Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the Italian language.

Japanese Courses

JPN 101 Conversational Japanese I

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisites: CCR 092

Introduces beginning students to conversational Japanese and focuses on understanding and speaking Japanese. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

JPN 111 Japanese Language I

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: CCR 092

Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading, and writing the Japanese language.

JPN 112 Japanese Language II

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: JPN 111 (Grade of C or higher)

Continues Japanese Language I in the development of functional proficiency in listening, speaking, reading, and writing the Japanese language.

JPN 211 Japanese Language III: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: JPN 112 (Grade of C or higher)

Continues Japanese Language I and II in the development of increased functional proficiency in listening, speaking, reading, and writing the Japanese language.

JPN 212 Japanese Language IV: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: JPN 211 (Grade of C or higher)

Continues Japanese Language I, II, and III in the development of increased functional proficiency in listening, speaking, reading, and writing the Japanese language.

Journalism Courses

JOU 102 Introduction to Editing for Media

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on the process of editing articles for publication in newspapers, newsletters, magazines, and the Internet. The Associated Press style is emphasized.

JOU 105 Introduction to Mass Media: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Places the mass media in an historical and cultural perspective, considering the validity, integrity, and influence of the media in a democracy.

JOU 106 Media News & Reporting

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: CCR 092

Introduces newswriting, reporting, and interviewing with an emphasis on clarity, accuracy, completeness, timeliness, and fairness.

JOU 109 Introduction to Desktop Publishing

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Introduces fundamentals of desktop publishing, using database files, desktop publishing, and graphics programs, as well as HTML coding, to design brochures, fliers, newsletters, newspapers, and Web sites. Students will also create database files and charts for computer-assisted reporting.

JOU 111 Principles of Advertising

3 Credit Hours • 45 Contact Hours (Lecture)

Employs design concepts, principles, and practices for advertising management for the mass media.

JOU 114 TV Production

3 Credit Hours • 45 Contact Hours (Lecture)

Covers principles and techniques of television production, as well as the role of the director/producer.

JOU 121 Photojournalism

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Develops photojournalistic skills in capturing moments of real life from a unique personal viewpoint. Covers a broad overview of new media story-telling techniques. Students will focus on the way they observe the world around them and on the content and quality of their photographs.

JOU 206 Intermediate Newsriting & Editing

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: CCR 092, JOU 106

Presents how to gather information as an investigative reporter through research of local, state, and federal government publications, how to cover police beat and city hall, how our courts and regulatory agencies function, and how to cover other challenges such as the environment, religion, science, medical, public safety, and business.

JOU 215 Publications Production & Design

3 Credit Hours • 60 Contact Hours (30 Lecture, 30 Lab)

Prerequisite: CCR 092

Provides for students' participation in the planning, writing, design, and production processes of a non-newspaper publication.

JOU 221 Newspaper Design I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: CCR 092

Provides students with experience in newsriting, editing, design, layout, and advertising for newspaper production. Students may be required to work on the college newspaper or other news-oriented publications.

JOU 222 Newspaper Design II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: JOU 221 (Grade of C or higher)

Allows students to build their newspaper production experience through work on the college newspaper or other approved news-oriented publications.

JOU 225 New Media

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Explores techniques and approaches in the latest delivery methods for internet-based journalism. Students explore digital media outlets such as blogs, microblogs, audio and video podcasts, e-zines and social networks. Students create journalistic pieces for internet-based media, focusing on best journalistic practices, ethics of internet media, and technology emergence effecting digital journalism. Concepts in video production, photography, writing, sourcing, editing and additional relevant skills necessary for the citizen journalist are introduced. Students create all components for the online dissemination of news, documentary and infotainment.

JOU 231 Introduction to Public Relations

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: JOU 106 (Grade of C or higher)

Focuses on public relations and its role for the individual, the non-profit organization, business, and government; research methodology, principles and practices necessary to become a public relations practitioner; and media channels best suited to a persuasive appeal or crisis.

JOU 241 Feature and Magazine Writing

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121

Studies trade, consumer, and technical markets; manuscript development with emphasis on nonfiction; submission techniques; and trends affecting the marketing of manuscripts.

JOU 280 Internship

3-5 Credit Hours • 45 Contact Hours per credit hour (Internship)

Note: Must have faculty consent to enroll

Provides a structured, guided, and individualized research that is organized and tailored around the interests and needs of the individual student who may use journalism skills and experiences acquired during previous coursework.

Law Enforcement Courses**LEA 101 Basic Police Academy I**

6 Credit Hours • 135 Contact Hours (Lecture/Lab Combination)

*Prerequisite: Permission of Academy Director.**Note: Taken concurrently with LEA 102, LEA 103, LEA 104, LEA 105, LEA 106, LEA 107, LEA 108, PED 110*

Conforms to POST standards and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on simulating actual situations utilizing a lecture and laboratory mode of learning.

LEA 102 Basic Police Academy II

12 Credit Hours • 270 Contact Hours (Lecture/Lab Combination)

*Prerequisite: Permission of Academy Director.**Note: Taken concurrently with LEA 101, LEA 103, LEA 104, LEA 105, LEA 106, LEA 107, LEA 108, PED 110*

Conforms to POST standards and state certification requirements as well as the basic skills and knowledge to perform the entry level duties of a peace officer. Emphasis will be on simulating actual situations utilizing a lecture and laboratory mode of learning.

LEA 103 Basic Law Enforcement Academy III

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

*Prerequisite: Permission of Academy Director.**Note: Taken concurrently with LEA 101, LEA 102, LEA 104, LEA 105, LEA 106, LEA 107, LEA 108, PED 110*

Enhances the standards established by the P.O.S.T. Board and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a Police Officer. Emphasis will be on expanding the P.O.S.T. curriculum to create a unique learning experience.

LEA 104 Basic Law Enforcement Academy IV

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

*Prerequisite: Permission of Academy Director.**Note: Taken concurrently with LEA 101, LEA 102, LEA 103, LEA 105, LEA 106, LEA 107, LEA 108, PED 110*

Enhances the standards established by the P.O.S.T. Board and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a Police Officer. Emphasis will be on expanding the P.O.S.T. curriculum to create a unique learning experience.

LEA 105 Basic Law

8 Credit Hours • 120 Contact Hours (Lecture)

*Prerequisite: Permission of Academy Director.**Note: Taken concurrently with LEA 101, LEA 102, LEA 103, LEA 104, LEA 106, LEA 107, LEA 108, PED 110*

Conforms to POST standards and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on United States Constitution, arrest, search and seizure, interrogation and confessions, rules of evidence, Colorado Criminal Code, Colorado Traffic Code, Colorado Children's Code, Liquor Code and controlled substances.

LEA 106 Arrest Control Techniques

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: Permission of Academy Director.

Note: Taken concurrently with LEA 101, LEA 102, LEA 103, LEA 104, LEA 105, LEA 107, LEA 108, PED 110

Grading: S/U only

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 107 Law Enforcement Driving

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: Permission of Academy Director.

Note: Taken concurrently with LEA 101, LEA 102, LEA 103, LEA 104, LEA 105, LEA 106, LEA 108, PED 110

Grading: S/U only

Covers the skills, knowledge and abilities required for operation of a law enforcement vehicle. Emphasizes defensive driving. Enables students to demonstrate skills by driving a vehicle under simulated conditions.

LEA 108 Firearms

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: Permission of Academy Director.

Note: Taken concurrently with LEA 101, LEA 102, LEA 103, LEA 104, LEA 105, LEA 106, LEA 107, PED 110

Grading: S/U only

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.

LEA 113 Basic Handgun Training

1 Credit Hour • 18.75 Contact Hours (7.5 Lecture, 11.25 Lecture/Lab Combination)

Discusses the skills, knowledge and abilities necessary to safely carry, use and discharge a handgun in the State of Colorado. This course meets the Colorado statutory requirements for training in conjunction with an application for a Concealed Carry Permit. This course involves live-fire exercises, and completion of this course will certify completion of the N.R.A. Basic Pistol Course.

LEA 117 Advanced Handgun Training

3 Credit Hours • 52.5 Contact Hours (30 Lecture, 22.5 Lecture/Lab Combination)

Discusses the skills, knowledge and abilities necessary to safely carry, use and discharge a handgun in the State of Colorado. This course meets the Colorado statutory requirements for training in conjunction with an application for a Concealed Carry Permit. This course involves live-fire exercises, and completion of this course will certify completion of the N.R.A. Basic Pistol Course, Advanced Weapon Cleaning and Maintenance, N.R.A. Refuse to Be the Victim, Defensive Shooting, Advanced Concealed Carry and the Safe Magazine Loading and Unloading programs.

LEA 118 Report Writing

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or ENG 131

Identifies the areas of concern in regards to proper documentation of police related activities. Focuses on report writing skills, proper structuring of interviews, and chronological documentation of events. Incorporates proper sentence structuring, the use of correct terminology, and accuracy in written reports.

LEA 126 Patrol Procedures

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on an in-depth study of the basic knowledge and skills required of a peace officer to safely and effectively accomplish the patrol procedure.

LEA 167 Fingerprinting

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

An in-depth instruction of the interpretation, classification, and presentation in court of the Henry System of classification of fingerprint patterns. Instructor includes the discussion of lifting and preserving fingerprints from crime scenes. The processing of a crime scene using basically powders and a magna brush. The student will be proficient in the Henry System and use all kits and allied equipment in a high level at the completion of the course.

LEA 218 Drug Investigative Strategies

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on laws dealing with gambling, prostitution, sex crimes, and narcotics. Emphasizes special techniques employed in the detection, suppression, and apprehension of violators. Includes effects of drugs and narcotics, identification of narcotics, and terminology.

LEA 219 Police Intelligence

2 Credit Hours • 30 Contact Hours (Lecture)

Focuses on the fundamentals of how law enforcement agencies apply intelligence in police operations and combat organized crime. Explains the structure, training, staffing, and security of intelligence units and demonstrates operating guidelines at a command level.

LEA 227 Law Enforcement Supervisory Training Program

2 Credit Hours • 30 Contact Hours (Lecture)

Develops the Law Enforcement Supervisor. It provides an overview of police supervision and gives the student an understanding of the first-line supervisor's role from three perspectives: management expectations, first-line supervisor's concept of the role, and subordinate's expectations. This is a P.O.S.T. approved course.

LEA 240 Criminal Investigations

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces investigation methods and procedures from preliminary through the follow-up stages.

LEA 246 Traffic Investigation

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an overview of the skills and concepts necessary to complete an accurate investigation of a traffic collision. Emphasizes traffic management concepts, selective traffic enforcement, and safety issues.

LEA 260 Police Photography

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Focuses on current methods and techniques of police photography. Includes the use, nomenclature, and operation of 35mm and 4x4 cameras at simulated crime scenes and traffic accidents. Incorporates the development, printing, and enlargement of photos.

Literature Courses**LIT 115 Introduction to Literature I: AH2**

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Introduces students to fiction, poetry, and drama. Emphasizes active and responsive reading.

LIT 121 Survey of World Mythology Literature

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Teaches students how to define mythology and how to read, analyze, and recognize mythic patterns and archetypes in diverse world literatures, both ancient and modern. The course will focus on identifying the elements of myth and analyzing how these elements appear in, and are altered by, cultural stories and authorial literature from multiple eras.

LIT 125 Study of the Short Story

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Focuses on careful reading and interpretation of the short story as a distinct genre. It examines formal as well as thematic elements of short fiction. Critical thinking, discussion, and writing about short stories will enhance perceptive reading skills and heighten awareness of the human condition.

LIT 201 World Literature to 1600: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Examines significant writings in world literature from the ancients through the Renaissance. Emphasizes careful readings and understanding of the works and their cultural backgrounds.

LIT 202 World Literature after 1600: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Examines significant writings in world literature from the seventeenth century to the present. Emphasizes careful reading and understanding of the works and their cultural backgrounds.

LIT 205 Ethnic Literature: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Focuses on significant texts by ethnic Americans including African American, Native American, Latino/a, and Asian Americans. Emphasizes careful reading and understanding of the cultural and literary elements of the works.

LIT 211 American Literature to the Civil War: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Provides an overview of American literature from the Native American through the nineteenth century Romantics. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

LIT 212 American Literature after the Civil War: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Provides an overview of American literature from the mid-nineteenth century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

LIT 221 British Literature to 1770: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Provides an overview of British literature from the Anglo-Saxon period through the 17th century. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

LIT 222 British Literature since 1770: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Provides an overview of British literature from the 18th century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers.

LIT 225 Introduction to Shakespeare: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Explores a selection of works by William Shakespeare. It focuses on careful reading and interpretation of the plays and poems, includes pertinent information about Elizabethan England, and examines formal as well as thematic elements of the selected works.

LIT 235 Science Fiction

3 Credit Hours • 45 Contact Hours (Lecture)

Examines the techniques and issues of science fiction through a close reading of a variety of writers in the genre.

LIT 246 Literature of Women

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Examines the techniques and themes in literature by and about women by examining women's issues from various genres.

LIT 248 Native American Literature

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Examines oral and written literature created by Native American peoples. Emphasizes narrative and ceremonial literature from the oral tradition. Examines oratory, autobiography, essays, poetry, short stories, and novels as oral and written forms.

LIT 255 Children's Literature

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Evaluates the criteria for selecting appropriate literature for children through exploration of genres, age levels, values taught through literature, and the literary and artistic quality of various texts.

LIT 257 Literature & Film

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Examines the relationship between literature and motion pictures, emphasizing the technique and interpretive function of filmmakers.

LIT 268 Celtic Literature: AH2

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Exposes the student to Irish literature. The course examines significant writings in Irish literature from the ancients through to the twenty-first century. The course emphasizes the careful reading and understanding of works of poetry, fiction, and drama, as well as their cultural backgrounds.

LIT 269 Popular Literature & Culture

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment

Explores special interests in literature, such as Detective Fiction and Science Fiction.

Machining Courses**MAC 100 Machine Shop Safety**

1 Credit Hour • 15 Contact Hours (Lecture)

Covers the hazards of a machine shop including health and safety, locating essential safety information from a code or other standard, location and use of safety and emergency equipment, and identifying and applying shop safety procedures.

MAC 101 Introduction to Machine Shop

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MAC 100 or concurrent enrollment

Covers safety procedures, use of bench tools, layout tools, power saws, drill presses, precision measurement tools, and various hand tools related to the machine shop. Also included are sharpening drill bits and general purpose turning tools for the lathe as well as determining speeds and feeds for both the lathe and the milling machine.

MAC 102 Blueprint Reading

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Students read blueprints and interpret symbols, notes dimensions, and tolerances.

MAC 110 Introduction to Engine Lathe

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MAC 101, MAC 102 or concurrent enrollment
 Introduces basic lathe applications which will consist of identifying lathe components and controls, understanding turning safety, calculating speeds and feeds, using various tools and tool holders, identifying basic tool geometry, and the use of common lathe spindle tooling. Students will perform basic lathe operations, which will consist of facing, center-drilling, chuck turning, turning between centers, boring, grooving, tapers, knurling, and single point threading. Students will be required to produce specified parts to a tolerance of +/- .004 in. and perform competencies set by manufacturing standards.

MAC 111 Intermediate Engine Lathe

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MAC 110
 Teaches students to prepare single point external and internal unified screw threads to a Class 3 fit, generate angles with the compound rest within one degree, ream holes concentric within .001 inches, determine cutting speeds, and perform facing and turning operations.

MAC 112 Advanced Engine Lathe

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MAC 111
 Prepares students to form radius, single-point isometric threads, turn spherical radius, use a radius gauge, and work within .0005 inches tolerance externally.

MAC 120 Introduction to Milling Machine

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MAC 101, MAC 102 or concurrent enrollment
 Teaches students to identify the major parts of the vertical mill; align a vise; use an indicator, edge finder, and boring head; determine speeds and feeds; perform simple indexing; mill flat and square surfaces and slots; drill, bore, and tap holes; and work within a plus or minus .002 inch tolerance.

MAC 121 Intermediate Milling Machine

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MAC 120
 Prepares students to determine hole locations by coordinates and degrees, use a rotary table, use a jig bore to drill holes by the coordinate method, and work within plus or minus .001 inch tolerance.

MAC 122 Advanced Milling Machine Operations

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MAC 121
 Prepares students to indicate the head of a vertical mill, bore holes, drill holes at an angle, and work with tolerances of .0008 inches location and diameter.

MAC 205 Introduction to CNC Milling Operations

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisites: MAC 240, MAC 241
 Provides transitional information between conventional machining applications and the typical applications found in computer numerical control machining. Topics may consist of numerical control systems, The Cartesian coordinate system, high efficiency tooling applications, objectives of numerical control, calculating speed and feed rates, defining and calculating tool motion, fixturing requirements, basic program structure, programming codes, and basic conversational programming. Operations of NC machines will be required.

MAC 206 CNC Milling Operations II

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: MAC 205, MAC 240, MAC 241
 Exposes the student to the principle operations of both vertical and horizontal CNC milling machines via lecture instruction methods, multi-media instruction methods, and manufacturing

hands-on methods. The student will be exposed to the basic CNC machining center, principle operations, manual controls, programming methods, tool-offsets, G54-G59 work offsets, cutter radius compensation, and tool selection methods. General operator skills and basic setup skills will be stressed.

MAC 240 CAD/CAM 2D

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MAC 101
 Provides the student with the essential concepts and techniques that are required to successfully create part geometry, generate tool path, verify tool path models, and post process the NC codes. The student will be exposed to a 2-axis machining, 3-axis machining wire frame and surface modeling, lathe programming, and DNC systems. Programming projects and models will be demonstrated in the CNC manufacturing lab.

MAC 241 CAD/CAM 2D Lab

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisites: MAC 101, MAC 240
 Requires students to produce a variety of lab exercises on robotic machinery in conjunction with MAC 240. Aspects of toolpaths for contour, drill, and pocket will be covered. Chaining geometry, setting parameters, and managing cutter compensations will be addressed in both multi-tool programs and re-machining operations. Coursework will primarily focus on 2D geometry projects.

MAC 245 CAD/CAM 3D

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisites: MAC 101, MAC 240, MAC 241
 Covers both the production and surfacing of three-dimensional geometry in a self-paced setting. Issues will be covered related to the production of wire frames, solids, surfaces, the joining of surfaces, joining of solids, managing construction planes, sweeping, rotating, and controlling parameter settings. A familiarity with Mastercam, CNC programming techniques, and CNC operations is recommended.

MAC 246 CAD/CAM 3D Lab

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MAC 245
 Requires students to produce a variety of three dimensional lab exercises on robotic machinery in a self-paced format in conjunction with MAC 245. Coursework will focus primarily on advanced geometry to include developing an understanding of CNC codes related to work offsets, cutter compensations, and tool management within CAD/CAM programs on the milling machine.

MAC 252 Practical Metallurgy

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MAC 101 or concurrent enrollment
 Offers a study of metallurgical terms and definitions in an effort to understand both the behavior of metals and their service to industry. Characteristics during heating, cooling, shaping, forming, and the stresses related to their mechanical properties are covered. The theory behind the alloys, heat treatment processes, and the impact they have on strength, toughness, hardness, elasticity, ductility, malleability, wear resistance, and fatigue resistances is investigated.

Management Courses

MAN 116 Principles of Supervision

3 Credit Hours • 45 Contact Hours (Lecture)
 Studies the principles and techniques of supervising and motivating personnel. This course is designed for students who are interested in supervising others or for those currently in supervision. Course content focuses on the human interaction in supervision.

MAN 117 Time Management

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Provides students with the conceptual knowledge and tools to make better use of their time in the management function.

MAN 125 Team Building

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Introduces the concept of working as a team member. Activities and assignments will emphasize the ability to negotiate, work together, build consensus, and make quality decisions.

MAN 128 Human Relations in Organizations

3 Credit Hours • 45 Contact Hours (Lecture)
Explores the importance of effective communication in our personal lives as well as in the world of business. Practical business applications such as employee motivation, handling customer complaints, and effectively resolving conflict in the workplace will be a major part of the curriculum.

MAN 200 Human Resource Management I

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: BUS 115
Provides the student with a broad overview of the contemporary issues, theories, and principles used to effectively manage human resources. Topics include recruiting, hiring, compensation and benefits, training and development, employee relations, and legal issues.

MAN 205 Event Planning

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: BUS 115
Presents the components of meeting planning; organization, personnel, finances, site selection, transportation, program design, promotion, arranging exhibits, and evaluation.

MAN 216 Small Business Management

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ACC 101 or ACC 121, MAN 226, MAR 216
Examines the elements necessary for the successful formation of a new small business. It is also designed to enhance the skills of those already involved in the operation of a small business. The course includes the development of a complete small business plan.

MAN 226 Principles of Management

3 Credit Hours • 45 Contact Hours (Lecture)
Presents a survey of the principles of management. Emphasis is on the primary functions of planning, organizing, leading, and controlling with a balance between the behavioral and operational approach.

MAN 240 Strategic Management

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: BUS 115, MAN 226 and sophomore standing
Presents the development of business policy and the integration of skills learned in prior business study, including strategy formulation, implementation, and evaluation. Focus is on the coordination of marketing, production, finance, accounting, and ethics and social responsibility to achieve competitive advantage.

MAN 246 Critical Issues in Marketing & Management

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: BUS 115 and sophomore standing
Examine current issues, practices, challenges and trends in the marketing and management environments including truth in advertising, promotional codes of conduct and a diverse workforce.

Manufacturing Technology Course

MTE 120 Manufacturing Processes

3 Credit Hours • 45 Contact Hours (Lecture)
Provides the student an overview of the different methods, tools and machines which are used to manufacture industrial and consumer products.

MTE 130 Metrology

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Serves as an extension of Statics and includes the study of mechanical properties of materials and their limitations in engineering design by the study of stresses, strains, torsion forces, shear forces, and deflections placed upon these. Exposes the student to the principles of dimensional metrology. Students will learn how to use common measuring instruments relating to state-of-the-art manufacturing environments. Students will also learn the importance of Quality Control, TQM, and SPC processes as they relate to manufacturing environments. Use of a coordinate measuring machine will be delivered.

MTE 247 Strength of Materials

3 Credit Hours • 52.5 Contact Hours (30 Lecture, 22.5 Lecture/Lab Combination)
Prerequisite: CAD 255, EGT 103, MAT 107
Serves as an extension of Statics and includes the study of mechanical properties of materials and their limitations in engineering design by the study of stresses, strains, torsion forces, shear forces, and deflections placed upon these materials.

Marketing Courses

MAR 111 Principles of Sales

3 Credit Hours • 45 Contact Hours (Lecture)
Enables the student to understand and develop ethical sales techniques and covers the role of selling in the marketing process. Areas of emphasis include behavioral considerations in the buying and selling process and sales techniques.

MAR 117 Principles of Retailing

3 Credit Hours • 45 Contact Hours (Lecture)
Emphasizes the study of the basic principles and techniques of merchandising, operations, layout, store organization, site location, and customer service with an emphasis on retailing operations.

MAR 160 Customer Service

3 Credit Hours • 45 Contact Hours (Lecture)
Enables students to learn the relationship of self to customers, problem solve, and understand the importance of communicating with customers. Specific emphasis is given to managing customer expectations by building customer rapport and creating positive outcomes.

MAR 216 Principles of Marketing

3 Credit Hours • 45 Contact Hours (Lecture)
Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer.

MAR 220 Principles of Advertising

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: MAR 216
Examines the principles and practices of advertising and its relationship to business in order to promote a business or organization. Areas of major emphasis include advertising principles, strategies, media, copy and layout, and ethical considerations.

MAR 240 International Marketing

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: BUS 115, MAR 216 and sophomore standing

Enables the student to explore the international marketing for U.S. products, and to explore the increasing competitive international environment and recent changes in the environment that have challenged U.S. business. The course is designed to make the reader an "informed observer" of the global market place as well as enabling him/her to develop skills to make marketing decisions in a global context.

MAR 249 Strategic Marketing

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: BUS 115, MAR 216 and sophomore standing

Illustrates the connections between a market-driven strategy, customer satisfaction, and profitable growth. Students will examine how marketing strategies are developed and executed within both small and large organizations. The course will emphasize strategy development, implementation, and evaluation.

Math Courses

Please note that the remedial math classes have been restructured. The new Developmental Math sequence is MAT 050 and MAT 055.

MAT 025 Algebraic Literacy Lab

1 Credit Hour • 30 Contact Hours (Lab)

*Prerequisite: Accuplacer score of 45-59(EA)**Note: MAT 025 must be taken concurrently with MAT 055*

Grading: S/U only

Supports skill development for students registered in MAT 055 Algebraic Literacy. Topics covered in this course include those defined in MAT 055 and/or any pre-requisite skills needed by the student. For students with Accuplacer score EA 45-59, this course is a required co-requisite with MAT 055 Algebraic Literacy.

MAT 050 Quantitative Literacy

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: Accuplacer score of 30-84(EA) or AR >39, AAA 109 or concurrent enrollment

Develops number sense and critical thinking strategies, introduce algebraic thinking, and connect mathematics to real world applications. Topics in the course include ratios, proportions, percents, measurement, linear relationships, properties of exponents, polynomials, factoring, and math learning strategies. This course prepares students for Math for Liberal Arts, Statistics, Integrated Math, and college level career math courses.

MAT 055 Algebraic Literacy

4 Credit Hours • 60 Contact Hours (Lecture)

*Prerequisite: Accuplacer score of 60-84(EA)**Note: Accuplacer score of 45-59(EA) may be advised into MAT 055 and must be taken concurrently with MAT 025, AAA 109 or concurrent enrollment*

Develops algebraic skills necessary for manipulating algebraic expressions and solving algebraic equations. Topics in the course include radicals, complex numbers, polynomials, factoring, rational expressions, quadratic equations, absolute value equations and inequalities, systems of linear equations, related applications, and math learning strategies. This course prepares students for College Algebra and Finite Math.

MAT 091 Applied Quantitative Lab

1 Credit Hour • 30 Contact Hours (Lab)

Note: Must be taken concurrently with MAT 107 or MAT 112

Grading: S/U only

Supports skill development for students registered in MAT 103, MAT 107, MAT 109, or MAT 112. Topics covered in the course include those defined in MAT 103, MAT 107, MAT 109, MAT 112 and/or any pre-requisite skills needed by the student. Students with Accuplacer scores EA 30-59 or AR 40+, who are advised into

MAT 103, MAT 107, MAT 109, MAT 112 are required to co-enroll in this course.

MAT 101 Enhanced Mathematics Support

1 Credit Hour • 30 Contact Hours (Lab)

Grading: SU only

Supplements math classroom instruction through the Mathematics Support Center, a student-centered learning environment. Students will be able to utilize the following resources: professional and peer tutoring, mathematics and tutorial software, online tutorial resources, videotapes, and training guides for these resources. Students will also be able to obtain help with calculators and mathematical software required in their math courses.

MAT 103 Math for Clinical Calculations

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: Accuplacer score of 60 (EA) or ACT score of 19 or MAT 050 (Grade of C or higher)

Provides a review of general mathematics, introductory algebra and an opportunity to learn systems of measurement and methods of solving problems related to drug dosage and intravenous fluid administration. It is designed for students in the health disciplines. Topics may include algebra, graphs, measurement and conversion between various systems of measurement.

MAT 107 Career Math

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: Accuplacer score of 60 (EA) or ACT score of 19 or MAT 050 (Grade of C or higher)**Note: Accuplacer score of 30-60(EA) or AR >39 may be advised into MAT 107 and must be taken concurrently with MAT 091*

Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

MAT 109 Geometry

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MAT 050 (Grade of C or higher)

Teaches basic geometric principles involving lines, triangles, circles, polygons, and three-dimensional figures. Geometric constructions and measurement in the metric and U.S. systems are covered.

MAT 112 Financial Mathematics

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: Accuplacer score of 60 (EA) or ACT score of 19 or MAT 050 (Grade of C or higher)**Note: Accuplacer score of 30-60 (EA) or AR >39 may be advised into MAT 112 and must be taken concurrently with MAT 091*

Covers topics including pricing, taxes, insurance, interest, annuities, amortization, investments using financial calculators, and spreadsheets.

MAT 120 Mathematics for the Liberal Arts: MA1

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisites: Accuplacer score of 85(EA), ACT score of 19 or MAT 050 (Grade of C or higher)

Develops mathematical and problem-solving skills. Appropriate technological skills are included. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. Additional content will include one topic in geometry, numeration systems, decision theory, or management science.

MAT 121 College Algebra: MA1

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisites: Accuplacer score of 85(EA), ACT score of 23 or MAT 055 (Grade of C or higher)

Includes a brief review of intermediate algebra, equations, and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, selection of topics from among graphing of the conic sections, introduction to sequences and series, permutations and combinations, the binomial theorem, and theory of equations. A graphing calculator is required.

MAT 122 College Trigonometry: MA1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: Accuplacer score of 55(CM) or ACT score of 24 or MAT 121 (Grade of C or higher)

Covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence.

MAT 123 Finite Mathematics: MA1

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisites: Accuplacer score of 85(EA), ACT score of 23 or MAT 055 (Grade of C or higher)

Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors.

MAT 125 Survey of Calculus: MA1

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: Accuplacer score of 55(CM) or ACT score of 25 or MAT 121 (Grade of C or higher)

Includes derivatives, integrals, and their applications, with attention restricted to algebraic, exponential, and logarithmic functions for business, life science, and/or social science majors.

MAT 135 Introduction to Statistics: MA1

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisites: Accuplacer score of 85(EA) or ACT score of 21 or MAT 050 (Grade of C or higher)**Note: MAT 135 must be taken with MAT 179*

Includes data presentation and summarization, introduction to probability concepts and distributions, statistical inference – estimation, hypothesis testing, comparison of populations, correlation, and regression.

MAT 155 Integrated Math I

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisites: Accuplacer score of 85(EA) or ACT score of 19 or MAT 050 (Grade of C or higher)

Engages students in the concepts of school mathematics, the course will include the recognition of numerical and geometric patterns and their application to a variety of mathematical situations; mathematical problem-solving, reasoning, critical thinking, and communication; algebraic thinking, representation, analysis, manipulation, generalizations and extensions.

MAT 156 Integrated Math II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisites: Accuplacer score of 85(EA) or ACT score of 19 or MAT 050 (Grade of C or higher)

Further MAT 155 concepts, the course will include fundamentals of probability, statistics, and Euclidean geometry. Mathematical problem-solving, reasoning, critical thinking and communication will continue to be an integral part of this sequence.

MAT 166 Pre-Calculus: MA1

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: Accuplacer score of 55(CM) or ACT score of 25 or MAT 121 (Grade of C or higher)

Reviews college algebra and college trigonometry intended for those planning to take calculus. Topics include algebraic manipulations, properties of algebraic and trigonometric functions and their graphs, trig identities and equations, conic sections, polar coordinates, and parametric equations.

MAT 179 Computer Applications for Statistical Procedures

1 Credit Hour • 30 Contact Hours (Lab)

*Prerequisites: Accuplacer score of 85(EA) or ACT score of 19 or MAT 050 (Grade of C or higher)**Note: MAT 179 must be taken with MAT 135*

Uses statistical software and the World Wide Web to engage students in an active visual approach to the topics covered in MAT 135. Students will work with real world data on problems of a practical nature.

MAT 201 Calculus I: MA1

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: Accuplacer score of 100(CM) or ACT score of 28 or MAT 166 (Grade of C or higher)

Introduces single variable calculus and analytic geometry. Includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications.

MAT 202 Calculus II: MA1

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: MAT 201 (Grade of C or higher)

Continuation of single variable calculus which will include techniques of integration, polar coordinates, analytic geometry, improper integrals, and infinite series.

MAT 203 Calculus III: MA1

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: MAT 202 (Grade of C or higher)

Completes the traditional subject matter of Calculus. Topics include vectors, vector-valued functions, and multivariable calculus including partial derivatives, multiple integrals, line integrals, and application.

MAT 204 Calculus III with Engineering Applications: MA1

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: MAT 202 (Grade of C or higher)

Includes all the topics of MAT 203 Calculus III with an additional emphasis on word problems and problem solving. This is the third course in the three-course calculus sequence. This course will additionally contain a thorough examination of multiple integration. This will include double and triple integrals, line integrals, Stokes' and Green's Theorems, and their applications. A graphing calculator is required for this course.

MAT 215 Discrete Mathematics: MA1

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: MAT 201 (Grade of C or higher)

Includes formal logic, algorithms, induction proofs, counting and probability, recurrence relations, equivalence relations, graphs, shortest-path, and tree traversal. This course is designed for mathematics and computer science students.

MAT 255 Linear Algebra

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MAT 202 (Grade of C or higher)

Includes vector spaces, matrices, linear transformations, matrix representation, eigenvalues, and eigenvectors.

MAT 265 Differential Equations: MA1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MAT 202 (Grade of C or higher)

Emphasizes techniques of problem solving and applications. Topics include first, second, and higher order differential

equations, series methods, approximations, systems of differential equations, and Laplace transforms.

MAT 280 Internship

1 Credit Hour • 45 Contact Hours (Internship)

Prerequisite: Requires written approval of the Math Center coordinator

Provides student 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.

Mediation Courses

MED 101 Introduction to Mediation

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces students to the role of the mediator in helping parties resolve their disputes. Students explore the conflict resolution, communication and problem-solving skills necessary for achieving effective dispute resolution in both professional and personal situations.

MED 104 Culture and Conflict Resolution

3 Credit Hours • 45 Contact Hours (Lecture)

Explores the role culture plays in conflict and its resolution, including the ways that race, ethnicity, gender, national origin, age, religion, sexual orientation, and language influence the mediation process.

MED 202 Family Mediation

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: PAR 117

Examines the process of mediation as it applies to family law issues such as divorce, child custody and parenting time, division of marital assets, and domestic violence.

MED 203 Employment and Business Mediation

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: PAR 216

Examines the applications of mediation to employment issues such as interpersonal conflict, employee discipline and job performance, harassment, and discrimination.

Medical Office Technology Courses

MOT 110 Medical Office Administration

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: CCR 092 (Grade of C or higher)

Introduces the administrative duties specifically used in medical offices.

MOT 120 Medical Office Financial Management

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CIS 118 or CSC 105, HPR 178, HPR 208, MAT 050 (Grade of C or higher)

Covers the practical uses of accounts and records with emphasis on accounting principles and analysis for use in a medical office.

MOT 124 Medical Filing

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: CIS 118 or CSC 105, HPR 178, HPR 208

Introduces the student to the basic rules and principles of filing in medical facilities. Topics include numeric, terminal digit, alphabetic, and computer-assisted filing methods. Cross-referencing, color-coding, and medical records control will also be introduced.

MOT 125 Basic Medical Sciences I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Teaches the anatomy and physiology, pathophysiology and drug therapy of the immune, musculoskeletal, and digestive systems. A discussion of pediatric implications as they relate to clinical physiology will also be covered. Students may take MOT 125, MOT

133 and MOT 135 in any order, but all three courses must be completed to meet the Basic Medical Sciences requirement.

MOT 131 Advanced Insurance Billing & Coding

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MOT 125, MOT 135

Prepares the student to code correctly and optimize reimbursements for a full range of medical services by expanding coverage of diagnostic and therapeutic procedures, official coding guidelines, APGs, APCs, DRGs, Medicare fraud and abuse.

MOT 133 Basic Medical Sciences II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Teaches the anatomy and physiology, pathophysiology and drug therapy of the cardiovascular, respiratory, and dermatology systems. Students may take MOT 125, MOT 133 and MOT 135 in any order, but all three courses must be completed to meet the Basic Medical Sciences requirement.

MOT 135 Basic Medical Sciences III

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Covers the anatomy and physiology, pathophysiology and drug therapy of the Renal, Reproductive, Neurological, and Endocrine systems. Students may take MOT 125, MOT 133 and MOT 135 in any order, but all three courses must be completed to meet the Basic Medical Sciences requirement.

MOT 136 Introduction to Clinical Skills

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Note: May be taken concurrently with MOT 138 and/or MOT 140

Provides hands on experience with the basic clinical skills required for assisting with patient care in an ambulatory setting. Delivers the theory behind each skill presented as well as proper technique for performing each skill. Includes knowledge and/or performance of universal precautions/OSHA regulations, HIPAA, medical asepsis, procedural gowning and gloving, patient draping and positioning, and measurement of vital signs.

MOT 138 Medical Assisting Laboratory Skills

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Note: May be taken concurrently with MOT 136 and/or MOT 140

Introduces the student to basic routine laboratory skills and techniques for collection, handling, and examination of laboratory specimens often encountered in the ambulatory care setting. Emphasizes hands-on experience.

MOT 140 Medical Assisting Clinical Skills

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Note: May be taken concurrently with MOT 136 and/or MOT 138

Provides hands on experience with the clinical skills required for assisting with patient care. Delivers the theory behind each skill presented as well as proper technique for performing each skill.

MOT 150 Pharmacology for Medical Assistants

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MAT 050 (Grade of C or higher)

Provides an overview of pharmacology language, abbreviations, systems of measurement and conversions. The Controlled Substances Act, prescriptions, forms of medications, patient care applications, drug classifications/interactions, and safety in drug therapy and patient care are presented. Information regarding the measurement of medications, dosage calculations, routes of administration, and commonly prescribed drugs in the medical office is provided.

MOT 181 Administrative Internship

2 Credit Hours • 90 Contact Hours (Internship)

Note: Must be in the final semester of MOT degree or certificate program or program coordinator consent

Provides supervised placement in contracted facility for guided experience in application of knowledge and skill acquired in the classroom. Positions are non-paid due to CAAHEP requirement. Student must have permission by program coordinator to begin internship.

MOT 182 Clinical Internship

3 Credit Hours • 135 Contact Hours (Internship)

Note: Must be in the final semester of MOT degree or certificate program or program coordinator consent

Provides supervised placement in contracted facility for guided experience in applications of knowledge and skills acquired in the classroom. Positions are non-paid due to CAAHEP requirement. Student must have permission by program coordinator to begin internship.

MOT 183 Medical Assistant Internship

5 Credit Hours • 225 Contact Hours (Internship)

Note: Must be in the final semester of MOT degree or certificate program or program coordinator consent

Provides supervised placement in contracted facility for guided experience in application of knowledge and skill acquired in the classroom. The student assists with a variety of business and clinical procedures. Positions are non-paid due to CAAHEP requirement. Student must have permission by program coordinator to begin internship.

MOT 189 Review for Med. Asst. National Examination

1 Credit Hour • 15 Contact Hours (Lecture)

Note: Must be in final semester of MOT degree or certificate program

Prepares the candidate sitting for the National Registration/Certification Examination for Medical Assistant through review and practice. These examinations are given with the intent of evaluating the competency of entry-level practitioners in Medical Assisting, therefore supporting quality care in the office or clinic.

MOT 208 Introduction to CPT-4 Coding

2 Credit Hours • 30 Contact Hours (Lecture)

Teaches basic coding concepts using the CPT-4 coding system for insurance claims. The course will introduce student to the HCFA 1500 form, HCPCS codes, and modifiers to be used for insurance claim filing.

MOT 209 Introduction to ICD-9 Coding

2 Credit Hours • 30 Contact Hours (Lecture)

Covers how to use the ICD-9-CM coding system for insurance claims. The course will introduce student to using the HCFA 1500 form generated from the physician's office.

MOT 210 Intermediate Coding

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MOT 208, MOT 209

Covers how to abstract information from medical records and code it for insurance purposes.

Meteorology Course**MET 150 General Meteorology: SC1**

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)

Prerequisite: MAT 050 (Grade of C or higher)

Provides an introduction to general meteorology and atmospheric sciences. It includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Additionally, the development of weather systems, such as storm systems, hurricanes, weather fronts and cloud development will also be examined. Finally, concepts of climatology will be stressed.

Multimedia Graphic Design Courses**MGD 102 Introduction to Multimedia**

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Introduces the types of equipment and technical considerations used in multimedia productions and the multimedia professions. It focuses on current types of equipment such as scanners, printers, digital cameras and computers. Students gain hands-on experience in how the technology is utilized for input and output

in production and design projects. Overview of software and basic design principles will be explored.

MGD 103 Production Design

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Explores the use of tools, computer graphics techniques, and design layout principles to produce professional graphic designs. Studies include printing basics, typography, and digital color systems. Students use creative thinking to solve communication and design concepts for the output process.

MGD 104 Videography

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Offers an introduction to the principles and techniques of videotape production, including camera operation, basic script writing, lighting, sound, and basic digital editing. Detailed examination of the pre-production, production, and post-production processes, as well as aesthetics, will be included.

MGD 105 Typography & Layout

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Covers the creation and production of graphic projects, emphasizing the layout creative design process, problem solving, and research. Provides experience producing thumbnails, roughs, and digital layouts emphasizing refined creative typography.

MGD 106 Creativity & Visual Thinking

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Introduces the visual thinking skills necessary to understand and use the creative process, develop innovative concepts and forms, and to produce and analyze creative works. The underlying components of creative thinking, the creative process, and the creative economy are of primary concern in this class. This class is about concept development and sketching.

MGD 107 History of Design

2 Credit Hours • 30 Contact Hours (Lecture)

Explores the pivotal events and achievements that have led to the current state of graphic communication. Through lectures, slides, videos, class discussions, and research, students discover the creative thinkers, innovations, and breakthrough technologies that have shaped the evolution of visual communication, advertising, and industrial design today.

MGD 108 History of Illustration

2 Credit Hours • 30 Contact Hours (Lecture)

Presents a selected overview of the origins of illustration to the present giving equal emphasis to commercial illustration, fine art, and gallery illustration. Special attention is paid to stylistic changes, work methods, and social context.

MGD 109 Design & Color

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Covers the design process and creative problem solving; design and color theories, fundamentals, styles; stages area applied to workups; finished art; and presentations. Emphasis will be on line, form, composition, and continuity.

MGD 110 Lettering for Graphic Design

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Studies lettering and letter forms; the various methods and mediums used in freehand and mechanically-rendered lettering; the design of lettering; and practical applications of lettering in the field of graphic design.

MGD 111 Adobe Photoshop I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Concentrates on the high-end capabilities of a raster photo-editing software as an illustration, design, and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics, and videos.

MGD 112 Adobe Illustrator I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Acquaints students with the processes of a vector drawing program on the computer. Students learn how to use the tools to create digital artwork that can be used in web design, print media, and digital screen design.

MGD 114 Adobe InDesign

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Introduces students to InDesign, a page layout program which integrates seamlessly with other Adobe design programs. InDesign delivers creative freedom and productivity to DTP. Class discussions and independent projects supplement hands-on classroom work.

MGD 116 Typography I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Introduces the history and concepts of typography as applied to graphic communications. Explores appropriate use of typography in a variety of design applications, emphasizing the basic design principles of typographic compositions and typesetting. Covers type recognition and typographic terms.

MGD 121 Painter for Digital Media

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Teaches students how to work with an illustration and paint software application called Painter. Color and relationships, repeat patterns, animation and digitization are among the topics covered in the course as students explore the possibilities of visual art using computers. Assigned projects cover a wide range of visual approaches. Painter provides an extra competitive edge for students.

MGD 132 Design & Color II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MGD 109
Covers the creative problem solving techniques for effective design and advertising continuity. Advanced exploration with design devices, theories, and applications will be discussed. Students will continue skills as well as design process development for ideas and concepts through all the layout stages to the finished presentation.

MGD 134 Drawing for Illustrators

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Covers fundamentals skills and theories of drawing and rendering line structure, form, value, texture, and composition. Application of drawing skills with various media for line quality as well as value and texture interpretations are also covered.

MGD 141 Web Design I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Introduces web site planning, design and creation using industry-standards-based web site development tools. Screen-based color theory, web aesthetics, use of graphics editors and intuitive interface design are explored.

MGD 143 Motion Graphic Design I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Stresses creation of animated and dynamic interactive media for web and multimedia applications. Students will learn how to animate objects, create symbols, and assemble motion tweens.

MGD 153 3D Animation I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MGD 102
Encompasses all major aspects of creating 3D characters using animation software. Using developed characters, the student will learn how to animate for personality.

MGD 161 Director I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Examines Macromedia Director, the leading authoring tool for interactive multimedia from the art director's perspective. Students will learn the basics of 2D animation for both computer presentations and the web. Interface design and scene development are emphasized. Hands-on projects include lingo scripts, behaviors, adding sound and digital video to student's movies.

MGD 164 Digital Video Editing I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MGD 102
Introduces digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control, transitions and filters, and special effects are explored.

MGD 165 After Effects I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Provides the fundamental techniques for creating digital motion graphics such as 2D animations, animated logos, video graphics, etc. Classes cover relevant tools and techniques as well as industry standards, delivery methods, and output.

MGD 178 Seminar/Workshop

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Provides students with an exceptional learning experience.

MGD 180 Internship

1-12 Credit Hours • 45 Contact Hours per Credit Hour
(Internship)

Note: Must have faculty consent to enroll

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.

MGD 201 Children's Book Illustration

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MGD 109
Studies the artist's role as a visual storyteller, with completion of a finished project to portfolio. Covers adapting a story into character development, story boarding, visual, editing and constructing the final drawing. Special attention to specifications, deadlines, reproduction requirements, and professionalism.

MGD 202 Point of Purchase Packaging Design

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MGD 109, MGD 132
Introduces the theories and principles that apply to three-dimensional design graphics for packaging and display; various dimensional marketing solutions to create dynamic visual effects concepts will be developed. Work layout stages and mock-ups will utilize various methods of cutting, folding, and assembly to explore the design concepts and their visual effects.

MGD 207 Illustration I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MGD 134
Addresses methods and techniques used in the profession of illustration for advertising, brochures, books and other forms of printed communications. Course concentrates on developing expertise in producing line and continuous-tone, black-and-white art with emphasis on design and the creation of art for reproduction.

MGD 208 Illustration II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: MGD 207
Addresses methods and techniques used in the illustration profession beyond those covered in Illustration I. Course

concentrates on developing expertise in producing color art for reproduction.

MGD 209 Illustration III

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 208

Continues Illustration II with added emphasis on conceptual development and proficiency in technique.

MGD 210 Illustration IV

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 209

Covers advanced illustration techniques including manual, computer and mixed media techniques.

MGD 211 Adobe Photoshop II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 111

Develops and reinforces image composition techniques learned in Adobe Photoshop I, MGD 111. Fundamentals are continuously reinforced as new design techniques are introduced.

MGD 212 Adobe Illustrator II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 112

Enables the student to continue development of electronic drawing skills through practice and use of state of the art illustration software.

MGD 213 Electronic Prepress

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 111, MGD 112

Explores in detail the electronic prepress process. Students examine steps for preparing a digital file for trapping, output considerations, and proofing techniques. Creating effective electronic designs and efficient use of today's software programs are also covered.

MGD 215 Painting for Illustrators

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Develops a more refined visual vocabulary, concentrating only on wet media both monochromatic and full color. Projects are more self-directed with emphasis on research, content composition, and professional expectation of the illustration in the graphic area. Working from both life and photographic subjects, the student will develop skills to achieve control of the painterly illustration media.

MGD 221 Computer Graphics I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 111, MGD 112

Introduces the process of generating computer design.

MGD 222 Computer Graphics II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 221

Continues MGD 221 with advanced problems in generating computer design for graphics application, emphasizing production of individual fine art pieces.

MGD 241 Web Design II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 141

Expands on previously learned fundamentals of HTML introducing cascading style sheets, DHTML, JavaScripts, and CGI forms. Color usage and interface design principles are emphasized in this course. This course will examine Web sites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

MGD 242 Web Architecture: Open Source Design

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 141

Provides an overview of current open source tools used in the design industry for designing and implementing Web architecture. Course content changes with trends in the industry. Topics may

include current content management platforms such as WordPress and Joomla, how to identifying web scripting languages, and an overview of open source programming such as PHP and MySQL.

MGD 243 Web Motion Graphic Design II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 143

Stresses the complex creation of 2D animated motion graphics concentrating on the prior skills learned and the use of scripting and behaviors. Students will create motion graphics using these skills and apply them to web sites. Web site justification of motion graphics will be stressed, appraised, and weighed.

MGD 259 Management & Production

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MGD 102, MGD 141, MGD 213 or MGD 221

Examines development of multimedia from a production standpoint. The process of transforming conceptual designs into actual projects is explored. Students study the management function of those tasks associated with the business end of development. Teamwork is emphasized throughout the course.

MGD 264 Digital Video Editing II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 164

Looks at the more complex and advanced techniques of digital video editing. Areas of editing such as masking, filtering, blue/green screening, track mattes, and image mattes will be examined. Students will produce a movie project in this class and discuss practical ways to distribute to various audiences.

MGD 265 After Effects II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 165

Provides advanced skills and techniques for creating digital motion graphics. The course covers relevant tools and techniques as well as industry standards, specialized techniques, and additional tools and resources.

MGD 266 DVD Authoring

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: MGD 164

Introduces students to all aspects of DVD authoring; covers source acquisition, DVD production, interface design, organization, management, and appropriate DVD output solutions.

MGD 268 Business for Creatives

3 Credit Hours • 45 Contact Hours (Lecture)

Presents a guide to freelance work and a study of business practices and procedures and models unique to creative occupations (graphic design, web design, animation, fine arts). Discussion includes determining charges, business forms, business planning, tax structure, licenses and registration, self-promotion (resume, website, portfolio, business identity package). Course may include visits by professionals in the field and discussion of career opportunities in a quickly changing career field.

MGD 280 Internship

1-12 Credit Hours • 45 Contact Hours per Credit Hour

(Internship)

Note: Must have faculty consent to enroll

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.

MGD 289 Capstone

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

A demonstrated culmination of learning within a given program of study.

Music Courses

MUS 100 Introduction to Music Theory I

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the basics of music theory. Course designed to help the beginning music student, or those students with limited background in music theory, study the basic elements of music. Topics include notation, rhythm, scales, key signatures, intervals.

MUS 101 Introduction to Music Theory II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MUS 100

Continues the introduction of basics of music theory and builds upon skills developed in MUS 100. Course designed to help the beginning music student, or those students with limited background in music theory, study the basic elements of music, including notation, rhythm, scales, key signatures, intervals and chords. Course continues to develop beginning level melodic and rhythm dictation, ear-training and sight singing skills.

MUS 105 Introduction to Computer Applications

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the use of computers in the music industry. Explores current use of MIDI instrument, MIDI sequencing, MIDI editing, audio editing, notation software, and set-up of Digital Audio Workstation.

MUS 110 Music Theory I

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MUS 101

Note: MUS 110, MUS 112, and MUS 131 must be taken together

Presents music fundamentals, diatonic four-part harmony, analysis, ear training, and keyboard harmony.

MUS 111 Music Theory II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MUS 110, MUS 112, MUS 131, MUS 132

Note: MUS 111, MUS 113 and MUS 132 must be taken together

Presents chromatic four-part harmony, analysis, ear training, and keyboard harmony.

MUS 112 Ear Training/Sight-singing I Lab

1 Credit Hour • 37.5 Contact Hours (Studio)

Prerequisite: Follow sequence of MUS 100 or MUS 101

Note: MUS 110, MUS 112, and MUS 131 must be taken together

Presents exercises in sight-singing with melodic and rhythmic dictation.

MUS 113 Ear Training/Sight-singing II Lab

1 Credit Hour • 37.5 Contact Hours (Studio)

Prerequisite: MUS 110, MUS 112, MUS 131

Note: MUS 111 and MUS 113 must be taken together

Presents exercises in sight-singing with melodic and rhythmic dictation.

MUS 120 Music Appreciation: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Covers the basic materials of music, musical forms, media, genres, and musical periods. Emphasizes the development of tools for intelligent listening and appreciation.

MUS 121 Music History Medieval thru Classical Period: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment, MUS 100 or MUS 110, MUS 120

Studies the various periods of music history with regard to the composers, esthetics, forms, and genres of each period. Considers music from the Middle Ages through the Classical period.

MUS 122 Music History Early Romantic Period to the Present: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment, MUS 100, MUS 120

Studies the various periods of music history with regard to the composers, aesthetics, forms, and genres of each period. Considers music from the early Romantic period to the present.

MUS 123 Survey of World Music: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121

Provides an overview of non-Western music from around the world; provides basic listening skills and the historical/cultural context for a variety of world music styles to enable an understanding and appreciation of non-Western musical expression.

MUS 125 History of Jazz: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Provides an overview of the history of jazz in America, and provides basic listening skills for the understanding and appreciation of jazz music.

MUS 126 History of Rock & Pop

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Provides a survey of the history and literature of American Popular Music from 1600 to the present. Through the study of the many ethnic influences that contribute to the diverse musical landscape of American Popular Music, the students acquire an appreciation of this rich musical heritage. These musical styles have evolved out of the diversity in America, and are performed and enjoyed throughout the world.

MUS 131 Music Class I

2 Credit Hours • 45 Contact Hours (15 Lecture, 30 Lab)

Applies the fundamentals of music to the voice or specific musical instruments. This course also introduces basic techniques, repertoire, and sight-reading. First year, first term.

MUS 132 Music Class II

2 Credit Hours • 45 Contact Hours (15 Lecture, 30 Lab)

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading. First year, second term.

MUS 133 Music Class III

2 Credit Hours • 45 Contact Hours (15 Lecture, 30 Lab)

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading. First year, third term.

MUS 134 Music Class IV

2 Credit Hours • 45 Contact Hours (15 Lecture, 30 Lab)

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading. First year, fourth term.

MUS 141 Private Instruction I

1-2 Credit Hours • 7.5-15 Contact Hours (Private Instruction)

Note: Must have Chair consent to enroll

Offers private instruction consisting of a thirty or sixty-minute lesson per week. Participation in a student performance is required at least once each term. First year, first term.

MUS 142 Private Instruction II

1-2 Credit Hours • 7.5-15 Contact Hours (Private Instruction)

Note: Must have Chair consent to enroll

Offers private instruction consisting of a thirty or sixty-minute lesson per week. Participation in a student performance is required at least once each term. First year, second term.

MUS 143 Private Instruction III

1-2 Credit Hours • 7.5-15 Contact Hours (Private Instruction)

Note: Must have Chair consent to enroll

Offers private instruction consisting of a thirty or sixty-minute lesson per week. Participation in a student performance is required at least once each term. First year, third term.

MUS 144 Private Instruction IV

1-2 Credit Hours • 7.5-15 Contact Hours (Private Instruction)

Note: Must have Chair consent to enroll

Offers private instruction consisting of a thirty or sixty-minute lesson per week. Participation in a student performance is required at least once each term. First year, fourth term.

MUS 151 Ensemble I

1 Credit Hour • 37.5 Contact Hours (Studio)

Rehearses and performs various types of musical literature. First year, first term.

MUS 152 Ensemble II

1 Credit Hour • 37.5 Contact Hours (Studio)

Rehearses and performs various types of musical literature. First year, second term.

MUS 153 Ensemble III

1 Credit Hour • 37.5 Contact Hours (Studio)

Rehearses and performs various types of musical literature. First year, third term.

MUS 154 Ensemble IV

1 Credit Hour • 37.5 Contact Hours (Studio)

Rehearses and performs various types of musical literature. First year, fourth term.

MUS 167 Music Business I

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 or concurrent enrollment, MAT 050 or concurrent enrollment

Designed to give music students, or those students with a strong interest in business and music, a complete overview and in depth examination of the current, historic and projected business practices in the music industry. Identify essential structures and opportunities in the business of music.

MUS 210 Music Theory III

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: MUS 111**Note: MUS 210 must be taken with MUS 212*

Continues study of four-part music, including extended harmonic progressions of ninth, eleventh, and thirteenth chords, extended alteration, non-chord tones, modulation, and compositions.

MUS 211 Music Theory IV

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: MUS 210**Note: MUS 211 must be taken with MUS 213*

Offers a continuation of chromatic harmony, analysis, ear-training, and keyboard harmony. New topics will include Impressionism and 20th century styles of composition.

MUS 212 Advanced Ear Training/Sight-singing I Lab

1 Credit Hour • 37.5 Contact Hours (Studio)

Note: MUS 210 must be taken with MUS 212. Follow sequence or have faculty consent to enroll.

Presents modulating and chromatic exercises in sight-singing and dictation. Dictation includes four-part writing.

MUS 213 Advanced Ear Training/Sight-singing II Lab

1 Credit Hour • 37.5 Contact Hours (Studio)

Note: MUS 211 must be taken with MUS 213. Follow sequence or have faculty consent to enroll.

Presents modulating and chromatic exercises in sight-singing and dictation. Dictation includes four-part writing.

MUS 231 Music Class I

2 Credit Hours • 45 Contact Hours (15 Lecture, 30 Lab)

Note: Must have faculty consent to enroll

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading. Second year, first term.

MUS 232 Music Class II

2 Credit Hours • 45 Contact Hours (15 Lecture, 30 Lab)

Note: Must have faculty consent to enroll

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading. Second year, second term.

MUS 233 Music Class III

2 Credit Hours • 45 Contact Hours (15 Lecture, 30 Lab)

Note: Must have faculty consent to enroll

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading. Second year, third term.

MUS 234 Music Class IV

2 Credit Hours • 45 Contact Hours (15 Lecture, 30 Lab)

Note: Must have faculty consent to enroll

Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading. Second year, fourth term.

MUS 241 Private Instruction I

1-2 Credit Hours • 7.5-15 Contact Hours (Private Instruction)

Note: Must have Chair consent to enroll

Offers private instruction consisting of a thirty or sixty-minute lesson per week. Participation in a student performance is required at least once each term. Second year, first term.

MUS 242 Private Instruction II

1-2 Credit Hours • 7.5-15 Contact Hours (Private Instruction)

Note: Must have Chair consent to enroll

Offers private instruction consisting of a thirty or sixty-minute lesson per week. Participation in a student performance is required at least once each term. Second year, second term.

MUS 243 Private Instruction III

1-2 Credit Hours • 7.5-15 Contact Hours (Private Instruction)

Note: Must have Chair consent to enroll

Offers private instruction consisting of a thirty or sixty-minute lesson per week. Participation in a student performance is required at least once each term. Second year, third term.

MUS 244 Private Instruction IV

1-2 Credit Hours • 7.5-15 Contact Hours (Private Instruction)

Note: Must have Chair consent to enroll

Offers private instruction consisting of a thirty or sixty-minute lesson per week. Participation in a student performance is required at least once each term. Second year, fourth term.

MUS 251 Ensemble I

1 Credit Hour • 37.5 Contact Hours (Studio)

Rehearses and performs various types of musical literature. Second year, first term.

MUS 252 Ensemble II

1 Credit Hour • 37.5 Contact Hours (Studio)

Rehearses and performs various types of musical literature. Second year, second term.

MUS 253 Ensemble III

1 Credit Hour • 37.5 Contact Hours (Studio)

Rehearses and performs various types of musical literature. Second year, third term.

MUS 254 Ensemble IV

1 Credit Hour • 37.5 Contact Hours (Studio)

Rehearses and performs various types of musical literature. Second year, fourth term.

Natural Resources Courses

NRE 100 Foundations of Forestry

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Presents the principles of forest science, dendrology, forest fire behavior, and silviculture principles.

NRE 102 Introduction to Natural Resources Management

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Covers an overview of our natural resources, the environmental concerns related to their management, and the agencies in charge of management of natural resources.

NRE 204 Range Management & Restoration

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)
Covers management of rangelands, important plants, rangeland communities, and restoration practices to restore disturbed ecosystems. Students will learn field measurement techniques of ecosystem components.

NRE 205 Wildlife & Fisheries Management Principles

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Covers theory, philosophy, and applications for study and management of wildlife and fisheries resources. Field and laboratory methods used in wildlife management also covered.

NRE 211 Environmental Policies & Economics

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ENG 121 or ENG 131
Covers interactions, resources, economics and politics; government and environment policy. Evaluation of alternative resource use patterns and land use plans. Discussion and analysis of current environmental issues and the impact of economic growth.

NRE 212 Ecosystem Management

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: ENV 101
Focuses on the larger landscape in order to integrate the human, biological, and physical dimensions of natural resource management. Collaborative management techniques are discussed.

NRE 214 Environmental Issues & Ethics

3 Credit Hours • 45 Contact Hours (Lecture)
Focuses on special environmental problems, current issues, or trends. Traditional and environmental philosophies are discussed. Students debate various environmental issues.

NRE 236 Public Relations of Natural Resources

2 Credit Hours • 30 Contact Hours (Lecture)
Offers an overview of professional communications with an emphasis on communication challenges encountered in environmental situations. Students will gain an understanding of direct and media communications with an emphasis on dialogue and research. Management planning and communications techniques will be explored as they apply to environmental case situations. Provides students with skills necessary for working directly or indirectly with the media and gives a broad understanding of the importance of customer service and outreach in environmental and natural resources fields.

NRE 278 Workshop/Seminar

1-6 Credit Hours • 15 Contact Hours per credit hour (Seminar)
Provides students with an experiential learning opportunity.

NRE 280 Internship

3 Credit Hours • 135 Contact Hours (Internship)
Note: Must have faculty consent to enroll
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.

NRE 289 Capstone

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Note: Must have faculty consent to enroll
Provides a demonstrated culmination of learning within a given program of study.

Nursing Courses

NUR 106 Medical & Surgical Nursing Concepts

9 Credit Hours • 217.5 Contact Hours (52.5 Lecture, 15 Lab, 150 Clinical)
Prerequisite: Permission of program director. Successful completion of preceding nursing program coursework
Corequisite: BIO 216, NUR 150

NUR 106 is the first medical/surgical nursing course. Building on NUR 109, this course provides for the acquisition of basic medical/surgical nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered care to a developmentally and culturally diverse adult patient population experiencing various medical/surgical interventions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the nurse. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings.

NUR 109 Fundamentals of Nursing

8 Credit Hours • 210 Contact Hours (30 Lecture, 90 Lab, 90 Clinical Lab)
Prerequisite: Permission of program director. BIO 201, BIO 202, BIO 204, ENG 121, PSY 235

NUR 109 introduces the fundamental concepts necessary for safe, patient-centered nursing care to a diverse patient population while integrating legal and ethical responsibilities of the nurse. Introduces caring, critical thinking, the nursing process, quality improvement, and communication used when interacting with patients and members of the interdisciplinary team, and relates evidence-based nursing practice. Application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings providing care to stable patients with common health alterations.

NUR 112 Basic Concepts of Pharmacology

2 Credit Hours • 30 Contact Hours (Lecture)
Prerequisite: Permission of program director. Admission to the program
Corequisite: NUR 109

Overview of the basic principles of pharmacology including major drug classifications and prototypes of commonly used medications. Principles of medication administration include aspects of best practice for safe, quality, patient-centered care. Central points include safety, quality improvement factors in the administration of medications, patient teaching, and variations encountered when administering medications to diverse patient populations across the lifespan.

NUR 150 Maternal - Child Nursing

7 Credit Hours • 165 Contact Hours (45 Lecture, 30 Lab, 90 Clinical)
Prerequisite: Permission of program director. NUR 109
Corequisite: BIO 211, NUR 106

NUR 150 provides for the acquisition of maternal/child nursing theory, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, family-centered nursing care to childbearing families and children that is developmentally and culturally appropriate. Incorporates evidence-based practice, standards of practice, quality improvement, and legal and ethical responsibilities of the nurse. Application of knowledge and skills

occurs in the nursing skills laboratory and in a variety of maternal/child and pediatric clinical settings.

NUR 169 Transition into Practical Nursing

5 Credit Hours • 120 Contact Hours (30 Lecture, 90 Clinical)

Prerequisite: Permission of program director. *NUR 106, NUR 150*
Facilitates the transition into the role of the practical nurse with emphasis on distinguishing the defined practical nurse scope of practice related to clinical practice, communication, nursing process, ethical/legal issues, and leadership skills. The student practices in the role of the practical nurse in the associated clinical experience.

NUR 189 Transition from LPN to ADN

4 Credit Hours • 90 Contact Hours (30 Lecture, 60 Lab)

Prerequisite: Permission of program director. *Acceptance into LPN/RN program*

Facilitates transition of the LPN to new roles and responsibilities of the ADN, the nursing process, critical thinking, legal and ethical issues in nursing practice, and the nursing care of childbearing families and pediatric clients. Application of knowledge and skills occurs in the laboratory and maternal/child and pediatric clinical settings.

NUR 201 IV Therapy for LPNs

5 Credit Hours • 105 Contact Hours (45 Lecture, 30 Lab, 30 Clinical)

Provides LPNs with an opportunity to expand their nursing roles by learning appropriate procedures for intravenous therapy and venous blood withdrawal. The course includes lecture, laboratory practice and clinical experiences. The course prepares the student for IV certification under State Board of Nursing Guidelines.

NUR 206 Advanced Concepts of Medical-Surgical Nursing I

8 Credit Hours • 195 Contact Hours (45 Lecture, 15 Lab, 135 Clinical)

Prerequisite: Permission of program director. *Successful completion of preceding nursing program course work*
Corequisite: *NUR 211, NUR 212*

NUR 206 builds on NUR 106 focusing on advanced concepts of nursing applied to care of patients with high acuity medical/surgical conditions. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in a variety of healthcare settings. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

NUR 211 Psychiatric-Mental Health Nursing

4 Credit Hours • 105 Contact Hours (15 Lecture, 30 Lab, 60 Clinical)

Prerequisite: Permission of program director. *Successful completion of preceding nursing program course work*
Corequisite: *NUR 206, NUR 212*

Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders.

NUR 212 Pharmacology II

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: Permission of program director. *NUR 106, NUR 150*
Corequisite: *NUR 206, NUR 211*

Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence-based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement

factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

NUR 216 Advanced Concepts of Medical-Surgical Nursing II

6 Credit Hours • 150 Contact Hours (30 Lecture, 120 Clinical)

Prerequisite: Permission of program director. *Successful completion of preceding nursing program course work*
Corequisite: *NUR 230 and elective*

NUR 216 is a continuation of NUR 206, focusing on complex medical/surgical conditions of the high acuity patient. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical/surgical conditions. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in the acute care and high acuity settings. Application of knowledge and skills occurs in a variety of clinical settings.

NUR 230 Transition to Professional Nursing Practice

5 Credit Hours • 127.5 Contact Hours (22.5 Lecture, 105 Clinical)

Prerequisite: Permission of program director. *NUR 211, NUR 212*
Corequisite: *NUR 216*

NUR 230 is a seminar and practice capstone course that provides an integrative experience applying all dimensions of the professional nurse in the care of diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed. Leadership and the management of multiple patients are emphasized. Application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

NUR 290 RN Refresher Course

5 Credit Hours • 97.5 Contact Hours (30 Lecture, 67.5 Lecture/Lab Combination)

Prerequisite: Permission of program director. *Colorado RN License in good standing*

Presents material that is designed for all RN's regardless of time absent from nursing practice, to explore avenues of employment. Clinical experience is held in the hospital to refresh and update basic nursing skills. Other opportunities for clinical experience may include home health, long-term, rehabilitation, and hospice.

NUR 291 RN Refresher Course Clinical

3 Credit Hours • 90 Contact Hours (Clinical)

Prerequisite: Permission of program director. *Colorado RN License in good standing*

Corequisite: *NUR 290*

Presents material as a co-requisite to NUR 290, the RN didactic portion of the completer program. Students will demonstrate skill attainment gained in NUR 290.

Nursing Assistant Courses

NUA 101 Nurse Aide Health Care Skills

4 Credit Hours • 67.5 Contact Hours (45 Lecture, 22.5 Lecture/Lab Combination)

Prepares the student to perform the fundamental skills of the nurse aide. Basic nursing skills, restorative services, personal care skills, safety, and emergency care issues are covered. Includes knowledge and/or principles of sepsis, OSHA and HIPAA regulations. Ethical behaviors, cultural sensitivity and principles of mental health will be addressed, as well as patient/resident rights.

NUA 102 Certification Exam Prep

0.5 Credit Hours • 15 Contact Hours (Lab)

Grading: S/U only

Helps prepare the student for the state certification exam through mock testing.

NUA 105 Home Health Aide Theory

2 Credit Hours • 30 Contact Hours (Lecture)

Introduces the student to the expanding field of Home Health Nursing. The student will discover the uniqueness of Home Health Care and the vital role that the nursing assistant plays as part of the home care team. The student will learn how to assist home care patients with activities of daily living and maintain a safe, clean, and comfortable environment. The student will also learn the differences and challenges of caring for patients in their natural home environment versus institutional settings.

NUA 170 Nurse Aide Clinical Experience

1 Credit Hour • 30 Contact Hours (Clinical)

Grading: S/U only

Applies knowledge and skill gained in NUA 101 to patient care.

NUA 171 Advanced Nurse Aide Clinical

1 Credit Hour • 30 Contact Hours (Clinical)

Must have current CPR card, negative TB test or chest X-ray, and current immunizations

Grading: S/U only

Prepare the student to move toward more independent functioning within the nurse aide scope of practice, in applying knowledge and skills gained in NUA 101 and NUA 170. The student will learn skills that enhance communication, cultural competency, end of life care, critical thinking and organizational skills.

NUA 172 Nurse Aide Clinical Practice with the Elderly

1 Credit Hour • 30 Contact Hours (Clinical)

Grading: S/U only

Provides theory and clinical practice of care of the elderly client, with emphasis on the special needs and problems of the client in a long-term care organization.

NUA 180 Home Health Aide Internship

3 Credit Hours • 82.5 Contact Hours (22.5 Lecture/Lab Combination, 60 Clinical)

Prerequisite: Current Colorado nurse aide certification or successful completion of a Colorado nurse aide course

Prepares the nurse aide for entry-level into the home health care setting.

Occupational Safety Technician Course**OSH 126 30-HR Construction Industry Standards**

3 Credit Hours • 45 Contact Hours (Lecture)

Provides a 30-Hour OSHA certification course for the construction industry and participants will review the current OSHA standards contained in 29 CFR 1926. Participants that complete the course will receive a certificate of completion from the United States Department of Labor, Occupational Safety and Health Administration. The course is taught by instructors certified by the Occupational Safety and Health Administration.

Outdoor Studies Courses**OUT 106 Map & Compass for the Outdoors Person**

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Covers the reading of highway, forest service, and topographical maps including symbols, legends, border information, and contour lines. Explores the use of magnetic compasses in an outdoor environment and functions that plot a course on maps. Supplemental navigation skills are included.

OUT 108 Wilderness Survival Skills

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

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

OUT 109 Winter Wilderness Survival Skills

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Emphasizes winter survival techniques in the nival environment at or near timberline. Focuses on winter ecology, basic snow science, and avalanche safety and rescue in a backcountry setting. This course includes field days and an overnight in a snow cave.

OUT 110 Caving I

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Introduces the student to the unique cave environment, formation of caves, cave biology, geology, and cave conservation. Reviews caving exploration techniques, caving equipment, caving safety and cave terminology.

OUT 111 Caving II

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: OUT 110

Introduces the student to the advanced science of speleology, with an in-depth study of the geology, biology, and hydrology of caves. Teaches the student advanced caving techniques with an emphasis on safety, and reviews advanced caving equipment.

OUT 112 Mountain Orientation

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

A concentrated field experience in the Colorado mountain environment is provided in this course. Emphasis is on backpacking skills, safety procedures, ecology, geology, geography and group dynamics.

OUT 113 Desert Orientation

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

A concentrated field experience in a desert environment is provided in this course. Emphasis is on procedures for group travel and camping, ecology, geography and safety.

OUT 114 Canyon Orientation

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Encounters the environment of the Canyonlands, Colorado Plateau or the Grand Canyon, where students develop proficiency in canyon travel, group camping and will explore the geology, geography and ecology of the canyon country.

OUT 115 Snow Orientation

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

A concentrated field experience in snow covered terrain and winter mountaineering is provided. Emphasis is on orienteering, natural shelter construction, site selection and survival first aid.

OUT 116 River Orientation

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Provides whitewater boat handling and water reading skills through experience on selected rivers. Students will learn river trip planning, river safety procedures, equipment, logistics, camp management, hazard evaluation, the natural history and archeology of river environments and minimum environmental impact on river environments.

OUT 119 Flyfishing I

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Enables the student to gain the knowledge and skill of the fine art of flyfishing including the selection and use of appropriate equipment, fly-casting techniques, flyfishing entomology and guiding techniques. Includes several field trips to local flyfishing areas.

OUT 120 Flyfishing II

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Introduces students to the higher level skill set required for a successful fly fishing guided experience. Topics will include lake and river dynamics and finding the fish, fly tying, as well as the effects of weather on fishing experiences will be discussed. Various methods of getting the client to the fish will be discussed including wading and floating moving water as well as a variety of

both hard and inflatable boats. Emphasis will be placed on the presentation of the fly, successfully striking the fish, and catch and release techniques. Other topics directly related to the business of fly fishing such as risk management, etiquette, permitting and type of related careers will be discussed.

OUT 126 Mountain Biking

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Introduces basic mountain biking skills and techniques. The primary emphasis is to gain an understanding of the basic principles of mountain biking. Students develop skills and techniques for all riding situations, review bicycle anatomy, and basic maintenance and repairs.

OUT 128 Outdoor Sports Conditioning

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Introduces the student to an outdoor sports conditioning program that builds on strength, flexibility, agility and stamina for the student planning to participate in any outdoor activity. Various exercises and techniques will be demonstrated and will concentrate on all muscle groups for strength, and cardiovascular emphasis for aerobic fitness. Outdoor as well as indoor training programs will be utilized.

OUT 129 Ice Climbing I

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Introduces technical (roped) ice climbing, including equipment selection and safety, knots, belaying and climbing, rappelling and climbing safety.

OUT 131 Rock Climbing I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Introduces basic rock climbing, improving dexterity, problem solving skills and the physical work capacity of an individual. Enables the student to gain an understanding of the general principles of climbing; how equipment works and how it is used; basic climbing skills and techniques; safety and climbing etiquette and terminology.

OUT 132 Rock Climbing II

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Prerequisite: OUT 131
Introduces lead climbing skills and techniques, problem solving skills and physical fitness. Emphasizes the general principles of lead climbing; proper usage of climbing equipment; development of lead climbing skills and techniques; climbing ethics and safety; and terminology.

OUT 133 Technical Canyoneering

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Introduces students to a variety of travel techniques for non-technical and technical canyon environments. Topics include: weather, canyon geography, navigation, group management and safety, technical rope work, climbing skills and self-rescue. A variety of wet and dry canyon travel techniques will be practiced, including: walking, scrambling, climbing, rappelling, jumping and swimming. Leave No Trace techniques in a desert canyon environment as well as a general knowledge of natural history and cultural history of the region will be emphasized.

OUT 134 Wilderness Ethics

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Emphasizes the motivation, aesthetics, and ethics of wilderness. Examines viewpoints from Native American, Western, historic, and modern environmental writers.

OUT 135 Risk Management for Outdoor Professionals

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
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.

OUT 136 Leave No Trace Trainer Cert.

2 Credit Hours • 37.5 Contact Hours (15 Lecture, 22.5 Lecture/Lab Combination)

Introduces the student to the principles of Leave No Trace and prepares students to teach Leave No Trace curriculum in a variety of outdoor and urban settings. This class is a must for guides, outfitters, outdoor educators, agency employees, scout/youth group leaders, or anyone who cares about minimizing impact on the Colorado backcountry.

OUT 137 Kayaking

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Provides basic kayak and water reading skills. The students will learn boating safety, hazard evaluation, terminology, whitewater river reading skills, paddling strokes, bracing techniques, peel out and eddy turns, and rescue and self-rescue techniques including wet exits, Eskimo rescues and introduction to and practice of the Eskimo roll.

OUT 138 White Water Rafting

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
This field experience course provides whitewater boat handling and reading skills through experience on selected rivers in Colorado and Utah. Students will learn river trip planning, safety procedures, equipment, logistics, camp management, hazard evaluation and minimum environmental impact on environments. Safe and efficient river travel, leadership and judgment development are emphasized.

OUT 139 White Water Rafting Guide

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Meets the requirements of Colorado Statute 33-32-105.5 which provides for the minimum qualifications of professional whitewater rafting guides. The classroom portion includes a review of the logistics, equipment, clothing, safety considerations, risk management, outdoor ethics, river reading fundamentals, and leadership skills. The remainder of the course will be spent with a licensed outfitter practicing all related and required skills while on the river.

OUT 140 Swift Water Rescue Tech I

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Trains and certifies river professionals and recreational users how to handle emergencies and rescue situations on the river. Topics include shallow water crossing, river swims, swimming rescues, shore based rescues, boat handling and boat based rescues, related equipment and communication in a variety of rescue situations.

OUT 144 Backcountry Cooking

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Focuses on menu planning, nutritional requirements for wilderness camping, and meal preparations. Includes cooking a backcountry meal.

OUT 156 Survival Plants in the Summer I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Introduces the student to the summer season genus and species recognition of wild useful plants (edible, medicinal, poisonous and tool-craft) in all life zone categories (alpine subalpine, montane, foothill and desert) of Colorado. Other topics covered will be summertime identification challenges, macro and micro environments, and dangerous lookalikes, and soils, latitudinal and elevational effects. Note: The Survival Plant series of classes can be taken in any order because each course academia is seasonal specific not nomenclature specific.

OUT 157 Survival Plants in the Fall I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Introduces the student to the fall season genus and species recognition of wild useful plants (edible, medicinal, poisonous and tool-craft) in all life zone categories (alpine, subalpine, montane, foothill and desert) in Colorado. Other topics covered will be wilderness survival as it relates to wild useful botany, definition of a "weed", natives vs. non-natives, parasites and saprophytes, poisoning and habitat synergy. Note: The Survival Plant series of classes can be taken in any order because each course academia is seasonal specific not nomenclature specific.

OUT 158 Survival Plants in the Spring I

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Introduces the student to spring season genus and species recognition of wild useful plants (edible, medicinal, poisonous and tool-craft) in all life zone categories (alpine, subalpine, montane, foothill and desert) in Colorado. Other topics covered will be early ethno botany, botanical nomenclature, annuals, biennials and perennials, harvesting ethic, rare plants and seasonal changes. Note: The Survival Plant series of classes can be taken in any order because each course academia is seasonal specific not nomenclature specific.

OUT 159 Survival Plants: Rockies

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Introduces the student to the Survival Plants of the Pacific Northwest with a focus on the geological region of the Lewis & Clark country and the northern Great Basin. The following states will also be studied: Idaho, Montana, Wyoming, northern Utah, Nevada and Colorado. Class will utilize live, pressed and dehydrated specimens, as well as slide presentations. Expanding students' knowledge of wild useful herbs; edible, medicinal, poisonous and tool-craft plants not seen in earlier classes. Indoor class emphasis allows botanical exploration of wild useful plants year round.

OUT 160 Survival Plants: Southwest

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Introduces the student to survival plants of the Southwest with a focus on the geographical region of Americas Great Southwest Deserts including the states of New Mexico, Arizona, southern Utah, Nevada & Colorado. In class utilization of live, pressed, and dried specimens. Indoor class emphasis allows botanical exploration of wild useful plants year-round.

OUT 161 Survival Plants: Summer II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Note: Students must have taken at least two in the series of OUT 156 Survival Plants in the Summer I, OUT 157 Survival Plants in the Fall I or OUT 158 Survival Plants in the Spring I (Grade of C better)

Introduces the student to useful wild plants of Summer not seen in earlier classes, as well as a review of botany and topics covered in previous classes. Students will learn wild food preparation, cooking and wild preservation methods. Students will experiment with wild salads, raw vs. cooked dishes and aquatic plant cooking. In addition, advanced cordage construction methods will be covered. The wet method of cordage construction will be practiced.

OUT 162 Survival Plants: Fall II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Note: Students must have taken at least two in the series of OUT 156 Survival Plants in the Summer I, OUT 157 Survival Plants in the Fall I or OUT 158 Survival Plants in the Spring I (Grade of C better)

Introduces the student to useful plants of the Fall season not seen in earlier Survival Plants classes, as well as a review of botany learned in earlier classes. Students will continue learning wild food preparation, cooking and preservation (dehydration). They will experiment with various wild plant food combinations, wild plant

spices and flavorings. In addition, fire starters both primitive and modern will be discussed and practiced (weather permitting). Natural tenders, friction fires and fire bundles will be covered.

OUT 163 Survival Plants: Spring II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Note: Students must have taken at least two in the series of OUT 156 Survival Plants in the Summer I, OUT 157 Survival Plants in the Fall I or OUT 158 Survival Plants in the Spring I (Grade of C better)

Introduces the student to the useful wild plants of Spring not seen in earlier classes, as well as a review of botany and topics covered in previous classes. Students will learn and practice harvesting methods such as winnowing grain from chaff using the wind. Wild food preparation, cooking and preservation will be expanded. Prepared food categories will be wild teas and coffees, wild sprouts and wild sweets and deserts.

OUT 167 Basic Search & Rescue

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Covers the basic fundamentals required for search and rescue in a wilderness environment. Includes tracking techniques and field trips.

OUT 168 Avalanche Awareness Level I

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Emphasizes the latest information available about the study of avalanches, snow science, rescue equipment, and rescue techniques. Provides students with the knowledge and skills necessary to help instill good judgment and sound skills when making day-to-day travel decisions in the winter environment. This course fulfills the National Ski Patrol's Basic (Level 1) Avalanche course requirements.

OUT 169 Avalanche Awareness Level II

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Prerequisite: OUT 168

Enhances students understanding of snow and avalanche phenomena, hazard evaluation, rescue, avalanche forecasting and avalanche hazard mitigation. Students will receive a certificate of completion stating that the course was taught following the guidelines of the American Avalanche Association.

OUT 187 Cooperative Education Internship

3 Credit Hours • 135 Contact Hours (Internship)
Note: Must have Instructor permission to enroll

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

OUT 201 Scuba Diving

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Provides basic instruction in scuba diving. Focuses on the knowledge and skills related to swimming and snorkeling, diving equipment, communications, the environment, safety, dive tables, and other pertinent information a student needs for safe scuba diving. This course prepares the student for open-water (PADI) certification.

OUT 202 Open Water Diver

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)
Grading: S/U only

Requires student divers to demonstrate mastery of performance requirements for four (4) different open water dives to become a certified open water diver through the Professional Association of Diving Instructors (PADI).

OUT 203 Advanced Open Water Diver

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: OUT 202

Extends the student's prior knowledge of diving by introducing them to advanced techniques including: deep diving, underwater navigation, night diving, peak performance buoyancy and multilevel diving. The classroom focuses on developing the student's knowledge, while the pool sessions focus on further developing the student's underwater skills. The open water training dives focus on improving the students diving skills as well as introducing the student to the different types of dives available.

OUT 204 Rescue Diver

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: OUT 203

Introduces the student to being able to help others in a rescue scenario. Teaches the student how to recognize problems at all stages in the rescue process. The classroom sessions focus on theories including stress management. The pool sessions focus on the practical application of assisting divers in trouble. The open water sessions focus on realistic situations. This fine tunes the student's ability to handle different situations and prepares the student for the Divemaster course.

OUT 205 Divemaster

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: OUT 204

Introduces the student to leadership level diving. It trains the student in several areas of focus: dive theory, waterman ship skills, problem solving abilities, role model behavior, student diver management and certified diver management. These skills are learned in both pool and classroom sessions. The practical application phase teaches the student how to deal with student divers as well as certified divers in a leadership role.

OUT 206 Assistant Scuba Instructor

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: OUT 205

Introduces the student to the skills needed to teach scuba diving. The classroom sessions start to develop the student's ability to set up teaching presentations, confined water presentations, open water presentations, standards and procedures for conducting Scuba diving courses and marketing of scuba to the general public. The pool sessions fine tune the student's ability to teach skills and demonstrate skills to training divers. The open water sessions show students how to evaluate divers' skills in a real world environment.

OUT 207 Open Water Scuba Instructor

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: OUT 206

Provides the students with specific instructor skills and refines their teaching ability by showing them the most current methods for training divers. Students will fine-tune confined water teaching presentations as well as get more opportunities to polish their abilities to evaluate student diver skills in the confined and open water environments. Students will perform rescues and fine tune rescue abilities as well as demonstrating how to conduct a continuing education course.

OUT 211 Mountaineering Leadership

(Previously OUT 232 Mountaineering)

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Develop the knowledge, ability and leadership skills necessary to instruct and safely lead a group on a mountaineering experience.

OUT 216 Challenge Course Facilitation

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

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.

OUT 218 River Orientation II

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Prerequisite: OUT 116, OUT 138

This course provides advanced-level experience in whitewater raft handling and water reading skills through direct experiences on selected rivers. Students will learn advanced rafting techniques, river trip planning, advanced river safety procedures, equipment, logistics, camp management, hazard evaluation, minimum impact techniques, and the natural history of river environments. Added emphasis will be placed on approaching material from the professional river-guide's perspective. Minimum age: 17.

Paralegal Courses**PAR 114 Computers & the Law**

3 Credit Hours • 45 Contact Hours (Lecture)

Provides students with an opportunity to develop computer skills needed in the legal environment, including software applications, spreadsheets, databases, and Internet research.

PAR 115 Introduction to Law

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an understanding of the role of paralegals, issues facing paralegals, the working of the legal system, and ethical questions. Legal terminology and an overview of the substantive areas of law will be discussed.

PAR 116 Torts

3 Credit Hours • 45 Contact Hours (Lecture)

A basic course in tort law, including negligence, intentional torts, and strict liability, with an emphasis on personal injury litigation.

PAR 117 Family Law

3 Credit Hours • 45 Contact Hours (Lecture)

This course covers domestic law, common property, dissolutions, adoptions, legal separation, and other family law issues.

PAR 118 Contracts

3 Credit Hours • 45 Contact Hours (Lecture)

This course covers the basic principles of contract law.

PAR 125 Property Law

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on real estate law, ownership, sale, leasing, financing, and government regulation of land.

PAR 127 Legal Ethics

3 Credit Hours • 45 Contact Hours (Lecture)

Explores the parameters of professional responsibilities and value systems for paralegals and related occupations.

PAR 201 Civil Litigation

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: PAR 116

Focuses on an intensive study of the legal process including the Federal and Colorado Rules of Civil Procedure.

PAR 202 Evidence

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the student to State and Federal Rules of Evidence and application to the trial process.

PAR 205 Criminal Law

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces basic concepts of criminal law and criminal procedure, including Colorado statutes and Rules of Procedure.

PAR 206 Business Organizations

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: PAR 115

Focuses on the study of the major types of business organizations.

PAR 208 Probate & Estates

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: PAR 115

Provides an understanding of the creation and administration of an estate, including wills and trusts, and the probate process.

PAR 209 Constitutional Law

3 Credit Hours • 45 Contact Hours (Lecture)

Emphasizes the study of the powers of government as they are allocated and defined by the United States Constitution.

PAR 211 Legal Research

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: PAR 115 or concurrent enrollment

Introduces the student to basic legal research tools, including statutes, digests, case law, citators, encyclopedias, dictionaries, and online data bases.

PAR 212 Legal Writing

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121, PAR 115, PAR 211 or concurrent enrollment

Enables the student to practice the content and conventions of legal writing.

PAR 213 Legal Research & Writing I

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an introduction to legal research and writing.

PAR 216 Employment Law

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an understanding of current legal issues in the area of employer/employee relationships.

PAR 218 Bankruptcy Law

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: PAR 115

Focuses on the federal and state laws and procedures involving bankruptcy.

PAR 280 Internship

3 Credit Hours • 135 Contact Hours (Internship)

Note: Must have Instructor permission

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.

PAR 287 Cooperative Education

3 Credit Hours • 105 Contact Hours (15 Lecture, 90 Work Experience)

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

Pharmacy Technician Courses**PHT 111 Orientation to Pharmacy**

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092 (Grade of C or higher)

Orients students to the work of pharmacy technicians and the context in which a technician's work is performed. Students learn the concept of pharmaceutical care and the technician's general role in its delivery. The development of new drug products is discussed as well as a variety of issues that touch on attitudes, value and beliefs of success for pharmacy technicians. Students gain an appreciation for the value of obtaining technician certification, and the benefits of technicians' active involvement in local, state, and national pharmacy organizations.

PHT 112 Pharmacy Law

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: CCR 092 (Grade of C or higher)

Introduces the pharmacy technician student to the profound influence that drug laws, standards, and regulations have on practice. Students learn to abide by the laws, regulations and standards that govern the preparation and dispensing of drugs.

PHT 114 Computer Skills for Pharmacy Technicians

1 Credit Hours • 15 Contact Hours (Lecture)

Focuses on the practice of pharmacy and the multiple operations contributing to safe and effective practices of dispensing, distribution, administration and prescribing of pharmaceuticals, medical supplies, equipment and devices. Pharmacy technicians are delegated certain operations and technical functions based upon established policies and procedures. Computers are utilized to contribute to the efficient delivery of these operations. Pharmacy technicians require a basic understanding of computer terminology and applications of the computer and the roles and responsibilities of pharmacist and pharmacy technicians in computer-based systems. Includes integration of an actual pharmacy operation application and allow students hands on technical experience.

PHT 115 Pharmacology I

3 Credit Hours • 45 Contact Hours (Lecture)

Provides the basic concepts of normal body function as well as the diseases which impact the various body systems and the drugs used to treat such diseases. Emphasizes disease state management and drug therapy.

PHT 116 Institutional Pharmacy

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

*Prerequisite: MAT 050 (Grade of C or higher), PHT 111 and instructor signature**Note: PHT 235 is highly recommended for successful completion of this course*

Provides a basic understanding of general and specific tasks as well as the responsibilities involved in the practice of pharmacy in an institutional pharmacy setting. Emphasizes in-patient hospital pharmacy practice and other related practice settings (such as Homecare and Nursing Home or Long-Term Care). A laboratory experiential component provides a hands-on experience in the preparation of intravenous admixtures, aseptic technique, unit-dose distribution, dispensing for greater than 24 hours.

PHT 118 Pharmacology II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: PHT 115

Reviews the disease states which impact the various body systems and the drugs used to treat such diseases. Emphasizes disease state management and drug therapy. Serves as the second part of the two-part presentation of the basic concepts of pharmacology.

PHT 119 Community Pharmacy

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: PHT 111

Provides a basic understanding of both general and specific tasks and responsibilities involved in the practice of pharmacy in a community setting. Emphasizes chain and independent community pharmacy practice, other related practice settings (such as consultant pharmacy, mail order pharmacy and nuclear pharmacy). Enables the student to obtain hands-on experience in the important technical duties of dispensing and compounding. The course will utilize a lecture-informal discussion format combined with a series of practice skills laboratory sessions.

PHT 170 Pharmacy Clinical: Institutional

4 Credit Hours • 160 Contact Hours (7.5 Lecture, 152.5 Clinical)

Prerequisite: PHT 116, PHT 118, PHT 119, PHT 235

Provides students with hands-on experience in an inpatient hospital pharmacy setting within the State of Colorado. Students

must complete all didactic course work prior to enrolling in this course. The course involves a minimum of 160 hours including 8 hours of seminar class time and 152 hours of on-the-job work experience. Each student is required to work under the supervision of a licensed pharmacist (i.e. preceptor) who may, in turn, delegate some supervisory and/or training responsibilities to another licensed pharmacist or certified pharmacy technician. During their work time at their hospital pharmacy site, students are expected to participate in the pharmacy practice activities delineated in the Clinical Site Manual provided each student and each preceptor. Such activities include, but are not limited to, dispensing, compounding, inventory handling and control, drug distribution, and the preparation of intravenous (IV) admixture products, chemotherapy products, and total parenteral nutrition (TPN) products. Students are also expected to complete daily and weekly reports of their work activities and are required to evaluate both their work site and their preceptor at the conclusion of their clinical rotation. Similarly, each preceptor is asked to complete an evaluation of, and provide a grade for, each student at the completion of the student's rotation. The course instructor is also required to evaluate each student after completing a visit to the student's work site and discussing the student's performance with both the student and his/her preceptor.

PHT 171 Pharmacy Clinical: Community

4 Credit Hours • 160 Contact Hours (7.5 Lecture, 152.5 Clinical)

Prerequisite: PHT 116, PHT 118, PHT 119, PHT 235

Provides the students with hands on experience in a community pharmacy setting. The course involves a total of 160 hours. Students must be supervised by a licensed pharmacist or qualified designee, and are expected to participate in activities delineated in the Clinical Site Manual, such as dispensing, inventory handling and control, drug distribution, processing of third-party claims, and communication with patients. The preceptor, student, and instructor complete evaluations at the completion of the rotation.

PHT 235 Pharmaceutical Calculations & Compounding Techniques

4 Credit Hours • 67.5 Contact Hours (45 Lecture, 22.5 Lecture/Lab Combination)

Prerequisite: MAT 050 (Grade of C or higher) or MAT 103

Develops the skills necessary for performing calculations in pharmacy practice and the compounding of sterile and non-sterile products. Includes a review of basic mathematical skills.. Enables the student to solve problems involving calculations pertinent to the preparations of pharmaceuticals. These skills are put to practical use in the compounding portion of this course. Preparation of sterile products, parenteral admixtures, TPN solutions and chemotherapeutics, using proper aseptic techniques are taught. The safe handling of antineoplastics and other hazardous drug products, as well as special drug storage requirements is learned. Emphasizes the importance of accuracy, quality and infection control. Use and maintenance of equipment such as Laminar Flow Hoods, auto-injectors, and pumps is discussed.

Philosophy Courses

Philosophy courses can be taken in any order.

PHI 111 Introduction to Philosophy: AH3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces significant human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future, and religion.

PHI 112 Ethics: AH3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines human life, experience, and thought in order to discover and develop the principles and values for pursuing a more fulfilled existence. Theories designed to justify ethical judgments are applied to a selection of contemporary personal and social issues.

PHI 113 Logic: AH3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking. Emphasizes the development of decision-making and problem-solving.

PHI 114 Comparative Religions: AH3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces students to the similarities and differences among concepts predominant in the major world religions, comparing sociological, philosophical, and phenomenological similarities between major world faiths. It is designed to transfer to any four-year college philosophy, religious studies, or humanities department.

PHI 115 World Religions – West: AH3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces students to religions of the Western world: Zoroastrianism, Judaism, Christianity, Islam and Bahá'í. Utilizes religious methods (historical, sociological, legal, psychological, and phenomenological) to understand the historical development of each tradition, the communities, cultural context of each religion, and the modern manifestations of each religion, paying particular attention to differences between sects, denominations, schools, and factions within each tradition. Focuses on the charismatic leaders, prophets, myths and legends that inform the world view of each faith.

PHI 116 World Religions – East: AH3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces students to religions of the Eastern world: Hinduism, Buddhism, Jainism, Taoism, Confucianism, Sikhism, and Shinto. Utilizes religious studies/methodologies: historical, sociological, legal, psychological, philosophical, and phenomenological. Examine religious traditions to understand the historical development of communities and cultural context of each religion, modern manifestations, and differences between sects, schools, and factions within each tradition. Focuses on the charismatic leaders and prophets and the myths and legends that inform the world view of each tradition.

PHI 142 New Testament

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

This course surveys the literature of the early Christian era, from its inception to approximately 150 C.E. The New Testament as well as selected non-canonical writings from the period is examined. The course focuses on the interpretation of these texts in light of the cultural milieu from which they arose. Particular attention is paid to the influence of ancient literary conventions upon the Christian writers of this time.

PHI 201 Social & Political Philosophy

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092, PHI 112

Addresses a single topic among those relevant to social and political philosophy such as political rights, political freedom, social obligations, or democracy.

PHI 205 Business Ethics

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines philosophical theories about ethics and relevant subsidiary theories about the nature of justice in order to gather ethical decision-making criteria. Such criteria will be applied through logical argumentation to various moral issues and challenges in today's business environment. Issues covered will include economic distribution, the presuppositions of business, job discrimination, worker's rights, consumerism, advertising, responsibility to the environment, as well as compassionate and fair responsibility to society.

PHI 214 Philosophy of Religion: AH3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on the critical examination of the fundamental concepts, ideas, and implications of religion. Includes the nature of God, the varieties of religious experience, argument concerning God's existence, the Problem of Evil, faith and reason, religion and human destiny, and the connection between religion and ethics.

PHI 218 Environmental Ethics: AH3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Critically analyzes theories of value of the natural world. Topics include the relation between scientific and moral principles; theories of the moral worth of persons, animals, plants and other natural objects; historical, religious and cultural influences on conceptions of nature; alternative accounts of human relationships and responsibilities to nature, including deep ecology and eco-feminism; and the connection between moral and political values and economic policies.

PHI 250 Eastern Wisdom

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Covers fundamental theories of Indian, Chinese, Japanese, and Muslim metaphysics, epistemology, ethics, and aesthetics, focusing on the development of Hinduism, Buddhism, Confucianism, Taoism, Shintoism, as well as Islam's development in the East.

Photography Courses**PHO 101 Professional Photography I**

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces black and white photography as a fine art medium and develops skills necessary for basic camera and lab operations.

PHO 102 Professional Photography II

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: PHO 101

This course is a further exploration in camera and lab operations with an emphasis on individual creativity. It includes the development of a comprehensive portfolio.

PHO 105 Photo & Computer Orientation

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

This course will orient the Professional Photography student with lab operations and procedures of computer labs and networks. Instruction of the numerous applications included with Mac OS-X including Safari, iTunes, iPhoto, iDVD, iMovie, disc burner, Adobe Acrobat Reader, word processing and spreadsheet applications will be covered.

PHO 120 Fundamentals of Photography

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces students to photography through a combination of lectures, demonstrations, assignments, and critiques. Students will learn to see photographically via an exploration of the basic tools, techniques and aesthetics of photography, with an

emphasis on the creative use of camera controls, exposure, an overview of film and digital processing, and an awareness of the critical issues in contemporary photography.

PHO 165 Outdoor Portrait Photography

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Provides students with an experiential workshop, where they learn techniques for photographing a single person or groups outdoors under varied conditions.

PHO 204 Commercial Studio Lighting

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ART 138, PHO 120 or concurrent enrollment

Explores the creative uses of studio lighting from the perspective of fine art and commercial photography with an emphasis on three dimensional object photography including, lighting techniques, backgrounds, working with shadows and highlights and photographing flat art.

PHO 205 Professional Digital Photo I

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: ART 138 or PHO 120

Introduces the basic concepts of digital imaging as applied to photography. Using applicable technology and hands on experience, modern developments are presented leading to the present applications of digital imaging which combine traditional photographic ideas with electronic media. Enables the student to learn how to operate image manipulation software using a variety of scanning equipment, software tools and output devices by executing new assignments and applying these technologies to their photographic process.

PHO 206 Professional Digital Photo II

3 Credit Hours • 60 Contact Hours (15 Lecture, 45 Lecture/Lab Combination)

Prerequisite: PHO 205

Expands upon the beginning digital photography class. Focuses on digital photography in terms of design and communication factors including color, visual design, lighting, graphics, and aesthetics.

PHO 226 Digital Workflow Management

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

*Prerequisite: ART 138 or PHO 120**Note: It is recommended to take MGD 111 before PHO 226*

Teaches computer aided photography and darkroom techniques. The emphasis of this course is image-editing software, which can be used to color correct, retouch and composite photographic images. Other topics include image acquisition, storage, file management, special effects, hard copy and web based image output.

PHO 232 Professional Portraiture

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: ART 144 (Grade of C or higher)

This course covers the technical and aesthetic aspects of studio and location portrait photography. Course topics include lighting ratios, lighting styles, location lighting, small system flash, light modifiers for portraiture, metering, composition, equipment and posing. Career paths in the field of portraiture such as weddings, environmental, editorial and studio portraits are covered.

PHO 233 Glamour & Fashion Photography

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Introduces students to the technical and aesthetic aspects of studio and location portrait photography in the areas of glamour, beauty, and fashion photography. Course topics include: strobe lighting, lighting styles, studio and location lighting, past and current trends in the industry, creativity and posing. Career paths in the field of glamour, beauty and fashion photography are also covered.

PHO 234 View Camera/Lighting Technique

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: ART 138 or PHO 120, MAT 050 (Grade of C or higher)

Instruction in the use of large format cameras and strobe lighting for product photography is the focus of this course. Topics include: types of large format cameras, view camera movements for depth of field and perspective control, lighting ratios, special lighting techniques, light modifiers, bellows factors, and the specific methods of lighting different objects and surfaces such as glass and metal.

PHO 235 Architectural Photography

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: ART 138 or PHO 120

Covers the more advanced aspects of commercial/ architectural photography. Students will explore photographing subjects ranging from products to buildings with an emphasis on meeting the design demands of commercial clients, stock agencies and publishers. Various film types, formats and print reproduction aspects will be explored in depth.

PHO 236 Commercial Photography

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: PHO 234 (Grade of C or higher)

This course is a continuation of View Camera and Lighting Techniques, emphasizing studio product illustration using color transparency film and digital capture. Advance techniques in lighting and further development of proficiency with the view camera and advanced aspects of commercial illustration photography are included.

PHO 237 Advanced Lighting Technique

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: ART 144

Emphasizes advanced lighting techniques for studio and location situations. Use of power pack, mono-block and small system strobe lighting will be emphasized. Controlling lighting conditions in mixed light situations for a variety of photographic fields including commercial, editorial, advertorial, portrait and events is covered.

PHO 253 Food Photography

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: PHO 236

Introduces students to the technical and aesthetic aspects of photographing food. Topics range from details and dinner settings, to splash photography. Course topics include: advanced lighting techniques with natural light and studio strobe lighting and food and prop styling.

PHO 258 Wildlife Photography

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: ART 138 (Grade of C or higher) or PHO 120 (Grade of B or higher)

This course introduces and refines specific tools and techniques involved in the taking of successful and professional wildlife photographs. This class exposes students to an awareness of the outdoors, with a specific interest in wildlife through a lecture and various class field trips. Students are expected to have a good knowledge of basic photographic concepts, such as technical camera skills and creative composition before entering this class.

PHO 259 Extreme Adventure Photography

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: ART 138 or PHO 120 (Grade of C or higher)

Introduces students to tools and techniques that will allow them to capture exciting, high quality professional images of a variety of outdoor adventure activities in physically demanding environments. Students enrolling in this course should be physically prepared to engage in extreme adventures. Examples include rodeos, rappelling, mountain biking, kayaking and white water rafting, rock crawling, or any other extreme activities. This

course will take advantage of local events/competitions and outdoor activities during field trips.

PHO 260 Events & Wedding Photography

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: ART 144, PHO 226

Note: Completion of PHO 232 suggested before taking PHO 260
 Presents skills for the intermediate/advanced photo student interested in learning the professional techniques associated with events (venue) and wedding photography. There will be an emphasis on advanced camera and flash techniques, candid, formal and ceremonial photography. Business and planning aspects will also be covered. Topics covered will include Weddings, Bar mitzvah/Bas mitzvah, Music Concerts, Sporting Events, Graduations and similar occasions. Students will gain hands-on knowledge and learn practical shooting skills.

PHO 266 Pro Digital Workflow: Software

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Prerequisite: PHO 226

Concentrates on developing a seamless professional workflow for digital photography, integrating all aspects of digital photography, including shooting Camera RAW in the field, conversion of files to digital negatives, color calibration, importing, sorting and developing images, to final print output. Students will understand the workflow associated with importing, processing, managing, and showcasing large volumes of digital photographs. This includes the use of libraries for importing and managing photos, fundamental photographic adjustments and batch processing of photographs, and using additional tools to present photos onscreen, online, or in print.

PHO 268 Portfolio & Career Exploration

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: PHO 226, PHO 232 or PHO 236 (Grade of B or higher)

The course is the terminal/capstone course for the Professional Photography program. Completion of all classes or concurrent enrollment in the remaining classes of the program is a requirement. In this class, students will create a computer-based portfolio and a printed presentation portfolio. Different techniques necessary for the production of the portfolios and styles of portfolios are covered. Resumes, cover letters, promotional pieces, presentation techniques, and skills related to the pursuit of careers and furthering education are covered in this class.

PHO 269 Business of Photography

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092

Presents a guide to freelance work and a study of business practices and procedures and models unique to a career in photography. Discussion includes determining price structures, examining the world of stock photography and art festivals, required equipment and studio needs, business forms, business planning, tax structure, licenses and registration, self-promotion (résumé, website, portfolio, post-card mailers, and business identity package). Course may include visits by professionals in the field and discussion of career opportunities in a quickly changing career field.

PHO 280 Internship

1 Credit Hour • 45 Contact Hours (Internship)
 Provides students with the opportunity to supplement course work 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/coordinator.

Physical Education Courses

PED 100 Fitness Concepts

1 Credit Hour • 30 Contact Hours (Physical Education)
Focuses on providing information and guidelines for moving toward a more healthy lifestyle. Includes classroom instruction, an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program utilizing the equipment and exercise options available in the Fitness Center.

PED 102 Weight Training I

1 Credit Hour • 30 Contact Hours (Physical Education)
Offers basic instruction and practice in weight training. Students utilize weight training equipment in accordance to their abilities and goals. Emphasizes weight training equipment orientation, correct lifting techniques, and basic program design for men and women.

PED 103 Weight Training II

2 Credit Hours • 60 Contact Hours (Physical Education)
Offers guided instruction and independent practice in weight training for men and women. Students practice various weight training techniques in accordance with their abilities. Emphasizes physiological considerations, equipment orientation, correct lifting techniques, program design, and nutrition.

PED 110 Fitness Center Activity I

1 Credit Hour • 30 Contact Hours (Physical Education)
Focuses on improving total fitness via an aerobic circuit training program. Includes an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program. Covers the basic components of fitness including flexibility, muscular strength, muscular endurance, cardiovascular fitness, and body composition. Weight machines, stationary bicycles, and computerized cardiovascular equipment will be used to elicit improvements in fitness.

PED 111 Fitness Center Activity II

1 Credit Hour • 30 Contact Hours (Physical Education)
Prerequisite: PED 110
Serves as an advanced course for individuals interested in reaching a higher level of total fitness via an aerobic circuit training program. Includes an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program. Focuses on the basic components of fitness including flexibility, muscular strength, muscular endurance, cardiovascular fitness, and body composition will be addressed. Weight machines, stationary bicycles, and computerized cardiovascular equipment will be used to elicit improvements in fitness.

PED 112 Fitness Center Activity III

1 Credit Hour • 30 Contact Hours (Physical Education)
Prerequisite: PED 111
Serves as an advanced exercise course designed for individuals interested in attaining a high level of total fitness. Includes an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program. Focuses on the basic components of fitness including flexibility, muscular strength and endurance, cardiovascular fitness, and body composition. The primary mode of training will be Aerobic Circuit Training. The circuit training is supplemented with additional work on the specialized weight machines, dumbbells, treadmills, rowers, stair climbers, cross trainers, Nordic track, versa climbers, and running track available in the Fitness Center.

PED 113 Fitness Center Activity IV

1 Credit Hour • 30 Contact Hours (Physical Education)
Prerequisite: PED 112
Focuses on advanced instruction designed for individuals interested in attaining a high level of total fitness. Includes an individual fitness evaluation, computerized analysis of results, and a prescribed exercise program. Focuses on the basic components of fitness including flexibility, muscular strength, muscular

endurance, cardiovascular fitness, and body composition. The primary mode of training will be Aerobic Circuit Training. The circuit training will be supplemented with additional work on the specialized weight machines, dumbbells, treadmills, rowers, stair climbers, cross trainers, Nordic track, versa climbers, and running track found in the Fitness Center.

PED 122 Step Aerobics

1 Credit Hour • 30 Contact Hours (Physical Education)
Introduces basic step aerobics, exercise techniques to improve physical fitness. Emphasizes the basic principles of step aerobics including the effects upon the cardio-respiratory system and skeletal muscles, various step patterns, and choreography.

PED 126 Cardio Kickboxing Aerobic I

1 Credit Hour • 30 Contact Hours (Physical Education)
Introduces aerobic kickboxing as an innovative new interval training aerobics workout that burns fat and increases cardio respiratory endurance. This high intensity course will focus on basic kickboxing moves and technique through hi-low aerobics choreography and target striking. The course will also include floor work to focus on toning and flexibility.

PED 129 Zumba

1 Credit Hour • 30 Contact Hours (Physical Education)
Zumba is a compilation of high energy, motivating music with unique moves and choreography combinations. Zumba fuses Latin and International music and dance themes to create a dynamic, exciting, effective fitness system. The routines feature aerobic/fitness interval training with a combination of fast and slow rhythms that tone and sculpt the body. Zumba utilizes the principles of fitness interval training and resistance training to maximize caloric output, fat burning and total body toning. It is a mixture of body sculpting movements with easy to follow dance steps.

PED 140 Body Sculpting & Toning

1 Credit Hour • 30 Contact Hours (Physical Education)
Introduces exercise techniques to improve overall physical fitness. Emphasizes the interaction between cardiovascular conditioning, muscular strength and endurance, flexibility, and program design integrated into an aerobic format. Focuses on blending together different combinations and sequences of exercises while conditioning the entire body. Students exercise using various types of resistance equipment.

PED 141 Pilates Matwork I

1 Credit Hour • 30 Contact Hours (Physical Education)
Focuses on Pilates matwork to increase core strength, overall muscles tone and flexibility with focused and precise floor work techniques. A physical education class built upon the philosophies and exercises of Josef Pilates.

PED 142 Pilates Matwork II

1 Credit Hour • 30 Contact Hours (Physical Education)
Prerequisite: PED 141
Builds upon the philosophies and exercises of Joseph Pilates. Pilates Matwork is a prerequisite, as this course builds upon basic techniques learned therein. Core strength, flexibility, overall muscle tone and balance are the goals of the matwork.

PED 143 Yoga I

1 Credit Hour • 30 Contact Hours (Physical Education)
Offers a guided instruction in yoga. Students practice yoga according to their individual fitness levels and abilities. Emphasizes enhancing general health and well-being through the performance of yoga strength, flexibility, balance, and relaxation techniques and exercises.

PED 144 Yoga II

1 Credit Hour • 30 Contact Hours (Physical Education)
Prerequisite: PED 143
Continues to build on the concepts of basic yoga. Increases awareness of yoga including physical and mental benefits.

PED 151 Walking & Jogging

1 Credit Hour • 30 Contact Hours (Physical Education)
Enables the student to understand the values in walking and jogging. Safety precautions and emphasis on personal programs are emphasized.

PED 161 Tai Chi I

1 Credit Hour • 30 Contact Hours (Physical Education)
Introduces Tai Chi as an expression of understanding of self-control, exercise, and self-defense. The primary emphasis is to gain an understanding of the history (origins and changes) of Tai Chi, the movements and their names, application of movements and terminology.

PED 162 Tai Chi II

1 Credit Hour • 30 Contact Hours (Physical Education)
Emphasizes the instruction of Tai-Chi from a practical and scientific approach with illustrations of applications for each of the movements in daily life. Cardiovascular training, strength and flexibility training, balance and coordination are integral parts of the Tai-Chi training. In addition psychosocial skills such as meditation, relaxation, and self-efficacy will be addressed.

PED 163 Martial Arts I

1 Credit Hour • 30 Contact Hours (Physical Education)
Introduces basic martial arts techniques and forms designed to improve the physical and mental capacity of an individual. Enables the student to gain an understanding of the basic philosophies and concepts around the martial arts and the approach to ethics. Provides a clear-cut guide for developing a powerful sense of character and will.

PED 164 Martial Arts II

1 Credit Hour • 30 Contact Hours (Physical Education)
Prerequisite: PED 163
Presents an empty-hand form of self-defense using all parts of the body in various blocking, kicking, punching and striking techniques against one or more assailants. The style of Karate taught will be Tae Kwon Do. Based on the results of an initial skills test, each student will be assigned two additional kicks, one additional jump kick, and one pattern. Intermediate sparring and self-defense techniques will be taught. Each student will be assigned a goal that they will strive to achieve by the end of the course.

PED 230 Volleyball I

1 Credit Hour • 30 Contact Hours (Physical Education)
Introduces and improve student skill level in volleyball. The primary emphasis is on teaching the student the elements of volleyball including rules, offensive and defensive play, passing, serving, setting, attacking, team play and game strategies.

PED 231 Volleyball II

1 Credit Hour • 30 Contact Hours (Physical Education)
Prerequisite: PED 230
Introduces and improves students advanced skills in volleyball. The primary emphasis is on teaching students quick offensives and advanced defensive systems in order to play volleyball at a competitive level.

Physics Courses**PHY 111 Physics: Algebra-Based I with Lab: SC1**

5 Credit Hours • 105 Contact Hours (60 Lecture, 45 Lab)
Prerequisite: MAT 121
Enables the student to explore the truth about physical reality through reasoning, mathematics, and experimentation. Examines kinematics, force, circular motion, energy, momentum, torque, rotational dynamics, simple harmonic motion, temperature, heat, and thermodynamics. The concepts and theories presented are explored through demonstrations and hands-on experiments. It is a general physics course that is recommended for all of the health sciences and all other interested students. Students entering

engineering or one of the advanced sciences should register for PHY 211.

PHY 112 Physics: Algebra-Based II with Lab: SC1

5 Credit Hours • 105 Contact Hours (60 Lecture, 45 Lab)
Prerequisite: PHY 111
Expands upon PHY 111 and covers sound waves, electric fields, electric circuits, magnetic fields, optics, and modern physics. Explores the concepts and theories presented in class are explored through demonstrations and hands-on experiments.

PHY 211 Physics: Calculus-Based I with Lab: SC1

5 Credit Hours • 105 Contact Hours (60 Lecture, 45 Lab)
Prerequisite: MAT 201
Enables the student to examine the truth about physical reality through reasoning, mathematics and experimentation. Covers kinematics, force, gravity, energy, momentum, torque, rotational dynamics, fluids, and waves. The concepts and theories presented in class are explored through demonstrations and hands-on experiments. This first semester calculus-based physics course is recommended for students entering engineering or one of the advanced sciences.

PHY 212 Physics: Calculus-Based II with Lab: SC1

5 Credit Hours • 105 Contact Hours (60 Lecture, 45 Lab)
Prerequisite: PHY 211
Expands upon PHY 211 and examines thermodynamics, electric fields, electric circuits, magnetic fields, light and optics, and modern physics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments.

Political Science Courses**POS 105 Introduction to Political Science: SS1**

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092
Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments and processes, and international relations.

POS 111 American Government: SS1

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092
Includes the background of the U.S. Constitution; the philosophy of American government; general principles of the Constitution; federalism; and civil liberties. Examines public opinion and citizen participation; political parties, interest groups, and the electoral process; and the structure and functions of the national government.

POS 125 American State & Local Government: SS1

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092
Examines the structure and function of state, county, and municipal governments including their relations with each other and with national government. Includes a study of Colorado government and politics.

POS 205 International Relations: SS1

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092
Examines relationships among modern nation states. Topics include diplomacy, nationalism, ideologies, power and influence, conflict and cooperation, the role of non-state actors, the international economy, and theoretical attempts to understand international behavior.

POS 215 Current Political Issues: SS1

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092
Incorporates an in-depth analysis of the background and nature of political issues and themes.

POS 225 Comparative Government: SS1

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on a comparison of the basic features of selected developed and developing countries. Topics include ideologies, political parties, interest groups, and governmental institutions.

POS 288 Practicum

1-6 Credit Hours • 45 Contact Hours per credit hour (Practicum)

Prerequisite: CCR 092

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

Psychology Courses**PSY 100 Psychology of Workplace Relationships**

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on interactions among people – their conflicts, cooperative efforts, and group relationships. Examines why beliefs, attitudes, and behaviors cause relationship problems in our personal lives and in work-related situations. Emphasizes the analysis of human behavior, the application of prevention strategies, and resolution of the behavior.

PSY 101 General Psychology I: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory.

PSY 102 General Psychology II: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, and social psychology.

PSY 106 Human Relations

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Emphasizes the development and practice of effective interpersonal skills on and off the job.

PSY 112 Psychology of Adjustment

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Emphasizes personal growth and the development of interpersonal skills. Focuses on the practical application of psychological principles and theories in achieving self-understanding and personal growth.

PSY 205 Psychology of Gender: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: ENG 121 (Grade of C or higher)

Examines gender comparisons in work, courtship, family life, and sexual behavior throughout the life span.

PSY 217 Human Sexuality: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: ENG 121 (Grade of C or higher) and PSY 101**(Grade of C or higher) or PSY 102 (Grade of C or higher)*

Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health.

PSY 226 Social Psychology: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: ENG 121 (Grade of C or higher) and PSY 101**(Grade of C or higher) or PSY 102 (Grade of C or higher)*

Focuses on the behavior of humans in social settings, including attitudes, aggression, conformity, cooperation and competition, prejudice, and interpersonal attraction.

PSY 227 The Psychology of Death & Dying: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: ENG 121 (Grade of C or higher) and PSY 101**(Grade of C or higher) or PSY 102 (Grade of C or higher)*

Examines the philosophies of life and death, emphasizing dying, death, mourning, and the consideration of one's own death.

PSY 235 Human Growth & Development: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: ENG 121 (Grade of C or higher) and PSY 101**(Grade of C or higher) or PSY 102 (Grade of C or higher)*

Examines human development from conception through death emphasizing physical, cognitive, emotional, and psychosocial factors.

PSY 238 Child Development: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: ENG 121 (Grade of C or higher) and PSY 101**(Grade of C or higher) or PSY 102 (Grade of C or higher)*

Focuses on the growth and development of the individual, from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors.

PSY 245 Educational Psychology

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: ENG 121 (Grade of C or higher) and PSY 101**(Grade of C or higher) or PSY 102 (Grade of C or higher)*

Focuses on the relationships between theory, research, and practice in the areas of learning, child development, motivation, and educational assessment.

PSY 247 Child Abuse & Neglect

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: ENG 121 (Grade of C or higher) and PSY 101**(Grade of C or higher) or PSY 102 (Grade of C or higher)*

Examines the causes and effects of physical, sexual, and psychological abuse and neglect. Intervention and prevention strategies are emphasized.

PSY 249 Abnormal Psychology: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: ENG 121 (Grade of C or higher) and PSY 101**(Grade of C or higher) or PSY 102 (Grade of C or higher)*

Examines abnormal behavior and its classification, causes, treatment, and prevention.

PSY 265 Psychology of Personality

3 Credit Hours • 45 Contact Hours (Lecture)

*Prerequisite: ENG 121 (Grade of C or higher) and PSY 101**(Grade of C or higher) or PSY 102 (Grade of C or higher)*

Examines the structure, function, and development of personality. Investigates the major contemporary theories of personality. Covers psychodynamic, behavioral, cognitive-social learning, humanistic, trait, and, optionally, neurobiological, existential, and/or Eastern perspectives. The underlying assumptions and research support for these theories are appraised. Enables the student to gain an appreciation of the value of alternative theoretical approaches to subfield study of psychology.

Public Security Management Courses

PSM 130 Homeland Security Law

3 Credit Hours • 45 Contact Hours (Lecture)

Provides a comprehensive overview for business, industry, and government as well as those faced with the new legal and security issues raised by new public laws, the new regulatory framework, and a new Department of Homeland Security. A complete overview of homeland security laws and regulations; emerging public safety requirements and policies; current and evolving programs to protect water, food and air supplies; latest security challenges in air transportation, vessel and port operations, and chemical handling and storage; privacy rights-finding the right balance with security concerns; human resource issues-hiring, firing, monitoring, providing a safe workplace, and Department of Homeland Security: organizational structure and management priorities; developing the most effective and compliant security plans.

PSM 132 Homeland Defense: Forecasting Terrorism

3 Credit Hours • 45 Contact Hours (Lecture)

Examines the variety of new indicators, warning methodologies, and analytical tools available to analysts; review of the extensive academic, governmental, and policy literature on terrorism forecasting that has been developed to assess and forecast terrorism in its numerous dimensions. Students will comprehend the various analytical capabilities of the types of terrorist threats that are most likely to confront the USA and its allies in the near future, and predict how to develop proactive defenses for the long term protection of our society.

PSM 133 Homeland Security: Chemical & Biological Defense

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an overview of the radiological, chemical, biochemical, and biological threat to Homeland Security. Analysis of the agents and means of dissemination or attack that an adversary nation, group or terrorist cell may employ to deliver these agents; review the current and projected means, techniques, and procedures for defense against such agents; review of theory and practices in chemical and biological threats to develop proactive defensive postures to defeat these threats.

PSM 135 Critical Infrastructure Protection

1 Credit Hour • 15 Contact Hours (Lecture)

Explores the facets of Critical Infrastructure protection. Provides the student with an interactive forum to develop protection strategies.

PSM 136 Hospital Emergency Response Training (HERT) for Weapons of Mass Destruction (WMD)

3 Credit Hours • 45 Contact Hours (Lecture)

Provides Hospital Emergency Response Training (HERT) for Weapons of Mass Destruction (WMD). This course is designed to provide guidance to hospitals, EMS, health care facilities and citizens who may become involved in a mass casualty incident as a result of a hazardous materials incident (HMI) or weapons of mass destruction (WMD) event. The HERT/WMD introduces the hospital incident management system (HIMS), addresses chemical protective clothing and equipment (CPC&E) requirements, and presents guidance for hospital emergency response team (HERT) design, development and training. This course prepares HERT to conduct safe and effective emergency response during mass casualty incidents (MCI).

PSM 137 Introduction to Mitigation

3 Credit Hours • 45 Contact Hours (Lecture)

Provides students with information and skills necessary to sustain actions to reduce or eliminate long-term risk to people and property from hazards and their effects.

PSM 200 National Incident Management System/Interagency Operations

3 Credit Hours • 45 Contact Hours (Lecture)

Explores several components that work together as a system to provide a national framework for preparing for, preventing, responding to, and recovering from domestic incidents. These components include command and management, preparedness, resource management, communications and information management, supporting technologies, and ongoing management and maintenance.

Radio & Television Courses

RTV 100 Introduction to Electronic Media

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on the study of the market demands involving national, local and international uses of electronic media.

RTV 101 Radio Programming & Production I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Focuses on radio programming, formats and audience rating surveys, basic and sophisticated communications systems, history of broadcasting, broadcasting and production equipment, and program broadcast systems and propaganda.

RTV 102 Beginning Television

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Focuses on principles and techniques of television production in theory and the approach of studio and field production. Emphasizes producing television programs, beginning with a concept through script to actual studio production, preproduction, and post production.

RTV 103 Writing for TV & Radio

3 Credit Hours • 45 Contact Hours (Lecture)

Explores writing techniques for television and radio emphasizing professional techniques, format, and style.

RTV 104 Corporate Scriptwriting

3 Credit Hours • 45 Contact Hours (Lecture)

Focuses on scriptwriting formats and techniques as they apply to creating corporate and institutional video productions and other broadcast and non-broadcast television productions.

RTV 108 Principles of Audio

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Focuses on basic audio production techniques to be used in television production. Includes the use of basic audio equipment and mixer to produce audio tracks for radio and television production.

RTV 120 News & Sports Writing & Production

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Introduces students to the world of News and Sports writing, reporting, and production. Emphasizes gathering, writing, and reporting radio and television news and sports. Covers history, current trends, ethical issues, news and sports in print, radio, TV, and the Internet and the production of finished projects in both the mediums of TV and Radio.

RTV 180 Internship – KEPC Radio

4 Credit Hours • 180 Contact Hours (Internship)

Prerequisite: RTV 101 or RTV 102

Incorporates on-the-air experience on the college FM radio station, KEPC.

RTV 181 Internship – College ITV Studio

4 Credit Hours • 180 Contact Hours (Internship)

Prerequisite: RTV 102, RTV 208

Provides experience in a commercial television station or an allied industry.

RTV 182 Internship – Radio Sta./Audio Production

4 Credit Hours • 180 Contact Hours (Internship)

Prerequisite: RTV 101 and faculty consent

Provides experience in a commercial radio station or an allied industry.

RTV 183 Internship – TV Studio/Video Production Co.

4 Credit Hours • 180 Contact Hours (Internship)

Prerequisite: RTV 102 and faculty consent

Provides experience in a commercial television station or an allied industry.

RTV 208 Basic Video Production

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: RTV 102

Introduces basic videotape production and editing on linear and non-linear editing systems. Covers producing, writing, directing, lighting, editing, and shooting techniques. Enables the student to gain experience in paint and character generator graphics, image processing, transitions, and techniques using the Avio and Casablanca non linear editors.

RTV 210 Audio Mixing

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Includes the fundamentals of audio mixing from the audio source to final master. By explaining the principles of mixing and the technical foundations of audio recording. Analyzing the principles of acquiring, manipulating, recording, and final mixing of audio and discussing the differences between digital and analog recording. Each student will summarize the function of microphones, audio sources, recording devices, and speakers and complete recording exercises and projects according to provided guidelines. Demonstration of linear and non-linear master mixing will also be required.

RTV 211 Radio Programming & Production II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: RTV 101

Focuses on styles of writing and reporting news, editorials, interviews, and commentaries; station logs and announcing styles and techniques; the Federal Communications Commission with emphasis on politics and serving the public interest; job finding and advancing in broadcasting; women in broadcasting; drama; and specialized production. Includes sports casting and weather casting.

RTV 212 Advanced Television Production

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: RTV 102

Introduces additional principles and techniques of television production in theory and the approach of studio and production in news, weather, and sports. Emphasizes direction and production development to include single and multi-camera production. Examines use of effects and chroming. Includes laws and ethics governing the television broadcast industry and Institutional Television.

RTV 218 Advanced Video Production

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: RTV 208

Develops advanced video production skills to prepare students for entry into the video production industry. Covers producing, directing, lighting, shooting, and editing techniques, as well as production aesthetics from industry standards. Provides hands on experience with linear and non-linear editing systems, and establishment of lighting and camera shooting techniques.

RTV 260 Broadcast Management

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the field of broadcast management as applied to day-to-day radio and television station operations, broadcast law, broadcast promotion, sales, research, ratings, logs, demographics and human relations in the broadcast workplace and arena.

RTV 280 Internship – TV Studio/Video Production II

3 Credit Hours • 135 Contact Hours (Internship)

Prerequisite: RTV 102, RTV 181 or RTV 183

Provides experience in a commercial television station or an allied industry.

RTV 281 Internship in the News – KEPC Radio

3 Credit Hours • 135 Contact Hours (Internship)

Prerequisite: RTV 101

Enables the student to cover news events, actualities, and report several regular newscasts on KEPC.

RTV 282 Internship – KEPC Radio II

3 Credit Hours • 135 Contact Hours (Internship)

Prerequisite: RTV 101, RTV 180 or RTV 182

Incorporates advanced experience on radio station KEPC.

RTV 283 Internship – Radio Sta./Audio Production II

3 Credit Hours • 135 Contact Hours (Internship)

Prerequisite: RTV 102, RTV 180 or RTV 282

Incorporates advanced experience in a commercial radio station or an allied industry.

RTV 284 Internship in Telecommunications

3 Credit Hours • 135 Contact Hours (Internship)

Prerequisite: RTV 101 or RTV 102, RTV 180 or RTV 182 or RTV 183

Provides experience in a commercial TV station or an allied industry.

Radiologic Technology Courses

RTE 101 Introduction to Radiography

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: CCR 092, MAT 050

Offers an introduction to radiology including equipment, exposure, positioning and the knowledge necessary for the radiography student to provide safe patient care including communication skills, body mechanics, patient transfer, and radiography as a profession.

RTE 105 Limited Scope Radiology Equipment & Imaging

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MOT 125

Introduces the fundamental aspects of limited scope radiographic equipment for the ambulatory care setting, including basic understanding of physics, x-ray circuits & tube heating management, principles of exposure & image quality such as kVp, mAs, grid, scatter radiation & its controls, formulating x-ray techniques, the image receptor systems. Have a basic understanding of X-ray darkroom, film processing, radiation safety & monitoring including radiobiology.

RTE 106 Limited Scope Radiology Patient Positioning & Techniques

2 Credit Hours • 30 Contact Hours (Lecture)

Prerequisite: MOT 125

Introduces the fundamental aspects of limited scope radiographic patient positions and techniques for skull, extremities, trunk of body, spine, including safety and infection control, assessment of patients and management of acute situations.

RTE 111 Radiographic Patient Care

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Offers expansion of the information presented in RTE 101, including diversity, universal precautions, legal considerations and ethics. Includes lecture and laboratory experience in the patient care areas of asepsis, vital signs, venipuncture, medical emergencies, assistance with drug administration, patient with special needs, and death and dying.

RTE 121 Radiographic Procedures I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Introduces fundamentals of radiographic positioning including use of radiographic equipment and safety, positioning, terminology, anatomy, pathology, and skills necessary to perform radiographic procedures of the chest, abdomen, upper extremity, gastrointestinal and urinary systems.

RTE 122 Radiographic Procedures II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Introduces additional material covered in RTE 121 including the knowledge of anatomy, pathology, and skills necessary to perform radiographic procedures of the lower extremity, pelvis, spine, and bony thorax.

RTE 141 Radiographic Equipment and Imaging I

3 Credit Hours • 45 Contact Hours (Lecture)
Introduces the fundamental aspects of radiographic equipment including a basic review of Physics fundamentals pertaining to x-ray production, the x-ray machine, image receptors, and control of scatter radiation.

RTE 142 Radiographic Equipment and Imaging II

3 Credit Hours • 45 Contact Hours (Lecture)
Expands information covered in RTE 141 and provides in-depth knowledge of radiographic exposure techniques, digital image processing, and fluoroscopy. In addition, the factors that affect image quality in digital and film/screen imaging, quality control, and quality assurance will be covered.

RTE 181 Radiographic Internship I

5 Credit Hours • 225 Contact Hours (Internship)
Introduces the clinical education experience at the clinical education center. The student applies knowledge learned in the classroom to the actual practice of radiography.

RTE 182 Radiographic Internship II

5 Credit Hours • 225 Contact Hours (Internship)
Introduces additional concepts and more complex radiographic procedures than those learned in Clinical Internship I.

RTE 183 Radiographic Internship III

7 Credit Hours • 315 Contact Hours (Internship)
Reinforces the basic concepts of Clinical Internship I and II.

RTE 221 Advanced Medical Imaging

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
Introduces advanced imaging techniques including radiography of the cranium, facial bones and special radiographic procedures. These concepts are combined with the basic oral communication techniques necessary for the professional radiographer.

RTE 231 Radiation Biology/Protection

2 Credit Hours • 30 Contact Hours (Lecture)
Provides the basic knowledge and understanding of the biologic effects of ionizing radiation and radiation protection and safety.

RTE 281 Radiographic Internship IV

8 Credit Hours • 360 Contact Hours (Internship)
Introduces the student to the radiographic specialty areas of Pediatrics, Geriatrics, the out-patient clinic, as well as increasing proficiency in general radiography.

RTE 282 Radiographic Internship V

8 Credit Hours • 360 Contact Hours (Internship)
Introduces the student to the radiographic specialty areas of pediatrics, geriatrics, the out-patient clinic, portable and trauma radiography as well as increasing proficiency in general radiography.

RTE 289 Capstone

3 Credit Hours • 45 Contact Hours (Lecture)
Prepares the radiology technology student to effectively search for a job in radiography and sit for the American Registry of Radiologic Technology examination.

Recreation Courses

REC 100 Introduction to Recreation

2 Credit Hours • 30 Contact Hours (Lecture)
Studies the history, principles, philosophy, and contemporary problems and trends of recreation and their influence upon today's American society.

REC 210 Principles of Outdoor Recreation

3 Credit Hours • 52.5 Contact Hours (30 Lecture, 22.5 Lecture/Lab Combination)
Includes lecture and practical outdoor experience relating to problems and trends in outdoor recreation.

REC 211 Outdoor Leadership

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
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.

REC 212 Outdoor Recreation Programming

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
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.

Russian Courses

RUS 111 Russian Language I

5 Credit Hours • 75 Contact Hours (Lecture)
Prerequisite: CCR 092
Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading, and writing the Russian language.

RUS 112 Russian Language II

5 Credit Hours • 75 Contact Hours (Lecture)
Prerequisite: RUS 111 (Grade of C or higher)
Continues Russian I in the development of functional proficiency in listening, speaking, reading, and writing the Russian language.

RUS 211 Russian Language III: AH4

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: RUS 112 (Grade of C or higher)
Continues Russian Language I and II in the development of increased functional proficiency in listening, speaking, reading, and writing the Russian language.

RUS 212 Russian Language IV: AH4

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: RUS 211 (Grade of C or higher)
Continues Russian Language I, II, and III in the development of increased functional proficiency in listening, speaking, reading, and writing the Russian language.

Science Courses

SCI 155 Integrated Science I: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)
Examines the nature of energy and matter, their interactions and changes, and the application of fundamental concepts to the study of our natural world. These concepts will be explored in hands-on laboratory experiments. This course integrates the fundamental concepts and ideas about the nature of physics and chemistry with the natural world.

SCI 156 Integrated Science II: SC1

4 Credit Hours • 75 Contact Hours (45 Lecture, 30 Lab)
Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments.

Social Work Courses

SWK 100 Introduction to Social Work

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Note: This course transfers to CSU-Pueblo

Introduces students to the philosophy of the social work profession including the knowledge, values, ethics, roles and skills inherent to generalist social work.

SWK 105 Application of Group Counseling

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Covers the basic techniques, philosophies, and principles of problem solving through group counseling. It teaches group leaders how to apply techniques in working with a variety of client groups.

SWK 106 Introduction to Alcohol & Drugs

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Acquaints the beginning student with various issues related to the field of working with substance and alcohol abuse. This course will also introduce the student to the knowledge base, values, ethics, intervention skills, and the diverse population groups served by social workers.

SWK 180 Internship I

6 Credit Hours • 240 Contact Hours (15 Lecture, 225 Internship)

Prerequisite: SWK 222

Provides work experience in a business or industry.

SWK 181 Internship II

6 Credit Hours • 240 Contact Hours (15 Lecture, 225 Internship)

Prerequisite: SWK 222

Provides work experience in a business or industry.

SWK 201 Human Behavior in the Social Environment I

3 Credit Hours • 45 Contact Hours (Lecture)

Note: This course transfers to CSU-Pueblo

Focuses on the person in the environment throughout the life span with an examination of the relationship between biological, psychological, social, spiritual and cultural systems.

SWK 202 Human Behavior in the Social Environment II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Note: This course transfers to CSU-Pueblo

Focus in this course is on an understanding and analysis of larger social systems which include the family, groups, communities and organizations. Emphasis is on social systems as an organizing theoretical framework for understanding social functioning and change.

SWK 205 Social Welfare in the U.S.

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Note: This course transfers to CSU-Pueblo

Introduces students to the profession of Social Work and Social Welfare. Students will be presented with an historical and conceptual overview of the social welfare system in the United States. Attention is given to the milieu within which social, political, economic, racial and cultural forces have interacted in the evolution of social welfare.

SWK 207 Differential Approaches in Social Services

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Introduces students to some contemporary counseling theories. Provides a basic understanding of treatment modalities to include Reality Therapy, Client Centered Therapy, and Behavior Modification.

SWK 208 Social Work Case Management

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Prepares students for work in the area of social services case management. Some of the topics that students will study include client assessment, resource identification, interventions with diverse client populations, counseling, NASW Code of Ethics, linkage, and outcome evaluation.

SWK 222 Introduction to Social Work Practice

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: SWK 100, SWK 205

Note: This course transfers to CSU-Pueblo

Application of the foundation of generalist practice skills. Requires 15 clock hours of volunteer work in an approved human service agency.

SWK 280 Internship III

6 Credit Hours • 240 Contact Hours (15 Lecture, 225 Internship)

Prerequisite: CCR 092, SWK 181, SWK 222

Provides work experience in a business or industry.

Sociology Courses

SOC 101 Introduction to Sociology I: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race.

SOC 102 Introduction to Sociology II: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines social institutions and organizations from the macro perspective. Emphasizes issues of social change, demography, social movements, and conflicts and trends within education, religion, family, political, and economic structures.

SOC 201 Introduction to Gerontology

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Acquaints students with the major issues and concepts pertinent to the field of gerontology. The course introduces various theoretical perspectives on aging, the changing trends in life expectancy and other demographic considerations, and the interrelationship between elders and key social institutions. It provides an overview of physical, cognitive, and socioemotional factors associated with aging.

SOC 205 Sociology of Family Dynamics: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Develops an understanding of marriage, family and kinship. It examines the family as an institution and how social, cultural, and personal factors influence family relations. The stability and diversity of the family will be explored, along with current trends and some alternative life styles.

SOC 207 Environmental Sociology: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examination of humans and the environment from an ecological perspective. Focuses on industrial and economic growth versus sustainability, natural resources development and management, environmental values and social movements, and comparative

perspectives on people's relationship to the environment. Review of the "Green" movement and other environmental movements and their impacts upon social dynamics, the environment, and the evolution of social movements.

SOC 215 Contemporary Social Problems: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores current social issues that result in societal problems. It focuses on such issues as civil liberties, gender discrimination, substance abuse, crime, poverty, and social change.

SOC 216 Sociology of Gender: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Gives students the theoretical and factual background necessary to understand the phenomenon of gender stratification in American and other cultures. Students will be exposed to a history of gender stratification in human societies, theoretical explanations for this, and insights into the consequences of gender differentiation in our world today.

SOC 218 Sociology of Diversity: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the variety of intergroup relations regarding race, nationality, ethnicity, gender, sexual orientation, and other diversity issues. Patterns of prejudice, discrimination and possible solutions to these issues will be addressed.

SOC 220 Sociology of Religion: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Provides an introduction to the sociology of religion, including a comparative and critical examination of world religions, by focusing on sociological interpretation and explanation of the role of religion in human culture. The interaction between society and religion is thus examined as are a wide variety of religious beliefs and practices.

SOC 223 Chicanos in a Changing Society

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Explores the lives and roles of Chicanos and Chicanas (Americans of Mexican descent). It introduces students to the Chicano community, its historical, political and social development. It explores the ways in which Chicano communities interrelate with Anglo and multicultural societies as well as its future prospects.

SOC 231 The Sociology of Deviant Behavior: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Examines the nature, identification, and explanation of deviant categories. Theories, and philosophies as well as methods of treatment related to deviancy will also be considered. The course will study society's attempts to control, change, and institutionalize those acts, individuals, or groups that a population may deem unacceptable.

SOC 237 Sociology of Death & Dying: SS3

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: CCR 092

Provides an opportunity to familiarize students and professionals with the needs and issues surrounding dying and death. This course will provide sociological, psychological, religious, historical, and anthropological perspectives for interpreting contemporary American customs dealing with dying, death, and bereavement. We will examine the professions associated with death and dying, such as hospice, funeral and crematory institutions, and medical care.

Spanish Courses

SPA 101 Conversational Spanish I

3 Credit Hours • 45 Contact Hours (Lecture)

Offers beginning students the skills necessary to understand and speak Spanish. The material includes basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

SPA 102 Conversational Spanish II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: SPA 101 (Grade of C or higher)

Offers students the skills necessary to understand and speak Spanish. The material continues to cover basic conversational patterns, expressions, and grammar.

SPA 109 Spanish for Travelers

2 Credit Hours • 30 Contact Hours (Lecture)

Introduces the basic vocabulary and expressions useful to travelers in Spanish speaking countries. The course will concentrate on the customs, traditions, and cultural attitudes to be discovered by a visitor to the destination country. Cultural diversity and global awareness are integral to this course of study. This course does not fulfill Humanities Area Requirements. Not intended for transfer.

SPA 111 Spanish Language I

5 Credit Hours • 75 Contact Hours (Lecture)

Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

SPA 112 Spanish Language II

5 Credit Hours • 75 Contact Hours (Lecture)

Prerequisite: SPA 111 (Grade of C or higher)

Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

SPA 114 Fast-Track Spanish I & II

5 Credit Hours • 75 Contact Hours (Lecture)

Designed to bridge beginning SPA courses with intermediate SPA courses. It is designed for students who have studied two years of the target language in high school and possess linguistic and cultural knowledge that true beginners do not, but are not ready yet to move to the intermediate level because they need an in-depth review of essential structures.

SPA 115 Spanish for the Professional I

3 Credit Hours • 45 Contact Hours (Lecture)

Designed as an introduction to a working knowledge of the Spanish language, cultural behaviors, and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and others.

SPA 201 Conversational Spanish III

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: SPA 102 (Grade of C or higher)

Provides students with the skills necessary to continue their study of understanding and speaking Spanish. The material includes intermediate level vocabulary, grammar, and expressions.

SPA 202 Conversational Spanish IV

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: SPA 201 (Grade of C or higher)

Provides students the skills necessary to continue their study of understanding and speaking Spanish. The material will continue to cover intermediate level conversational patterns, expressions, and grammar.

SPA 211 Spanish Language III: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: SPA 112 (Grade of C or higher)

Continues Spanish Language I and II in the development of increased functional proficiency in listening, speaking, reading, and writing the Spanish language.

SPA 212 Spanish Language IV: AH4

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: SPA 211 (Grade of C or higher)

Continues Spanish Language I, II and III in the development of increased functional proficiency in listening, speaking, reading, and writing the Spanish language.

SPA 215 Spanish for the Professional II

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: SPA 115 (Grade of C or higher) or concurrent enrollment

Continues SPA 115 in the development of a working knowledge of the Spanish language, cultural behaviors, and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and others.

SPA 261 Grammar for the Heritage Language Speaker

3 Credit Hours • 45 Contact Hours (Lecture)

Note: Permission of Instructor required

Provides formal grammatical instruction to Foreign Language students whether native or bilingual who want to develop their existing proficiency in Spanish.

SPA 262 Composition for the Heritage Language Speaker

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: SPA 212 (Grade of C or higher)

Provides formal composing instruction to Spanish Language students whether native or bilingual who want to develop their existing proficiency in Spanish.

SPA 289 Capstone

3 Credit Hours • 45 Contact Hours (Lecture)

Provides a demonstrated culmination of learning within a given program of study.

Theatre Courses**THE 104 Basic Costume and Apparel Construction**

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Provides students with training in cutting and sewing techniques, as well as knowledge of fabric types, qualities, uses, and cleaning.

THE 105 Theatre Appreciation: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Includes discussions, workshops, and lectures designed to discover, analyze, and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory.

THE 108 Theater Script Analysis: AH1

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces students to methods of reading and analyzing literature for the stage. In addition, students will apply staging and design concepts in visualizing and analyzing how a play looks, sounds, and feels when produced.

THE 111 Acting I

3 Credit Hours • 45 Contact Hours (Lecture)

Note: It is strongly recommended to take THE 105 before THE 111

Covers basic acting techniques and approaches including scene study, improvisation, and script analysis. Includes practical application through classroom performance.

THE 112 Acting II

3 Credit Hours • 45 Contact Hours (Lecture)

Note: It is strongly recommended to take THE 105 before THE 112

Continues to explore basic acting techniques and approaches including scene study, improvisation, and intermediate script analysis. It includes practical application through classroom performance.

THE 115 Stage Movement for Actors

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces the vocabulary of human movement, techniques of physical training, and anatomy and kinesiology for the actor. The course includes forms of basic dance and the coordination of movement with vocal delivery.

THE 116 Technical Theatre

3 Credit Hours • 45 Contact Hours (Lecture)

Introduces hands-on methods of constructing and painting scenery and properties and operating stage lighting. Students also learn the proper procedures of using shop equipment and serving on stage crews.

THE 120 Drafting for the Performing Arts

3 Credit Hours • 45 Contact Hours (Lecture)

Teaches students to apply basic drafting techniques to various performing arts applications and venues such as ground and lighting plots for stage, film, dance and music. Other projects will include design layouts, working, detailed and isometric drawings. Attention will be given to drawing symbols, notations, dimensions and blueprint reading.

THE 126 Auditioning for Musical Theater

3 Credit Hours • 45 Contact Hours (Lecture)

Builds a confident, talented, and exciting audition. It includes a mock videotaped audition, and covers resumes, head shots, repertoire choices, stage fright, 16-bar audition, and dressing for success. This course is presented in conjunction with producers from regional theaters providing valuable feedback for the participants.

THE 130 Safety, Tools & Materials

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: THE 116

Addresses basic safety guidelines concerning the operation/use, care and storage of tools and materials. Areas covered include OSHA power tools, hand tools, hardware, lighting and sound equipment, paints, solvents, plastics, woods, steel, aluminum, and ladders.

THE 131 Theatre Production I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

THE 132 Theatre Production II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: THE 131

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

THE 135 Stage Makeup I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Explores stage makeup design and application techniques including basic corrective, character, old age, animal, and fantasy applications.

THE 136 Stage Makeup II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)
Continues to examine theatrical makeup design and application techniques, adding prosthetics, hair design and other advanced applications.

THE 140 Stage Dialects

1 Credit Hour • 15 Contact Hours (Lecture)
Teaches students to develop skills in nine dialects and accents.

THE 144 Scene Study

1 Credit Hour • 15 Contact Hours (Lecture)
Prerequisite: THE 111
Emphasizes the Stanislavski approach. Students will explore acting skills through advanced material, including avant garde and classical.

THE 152 Production Stage Management I

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)
Prerequisite: THE 116
Focuses on the basics of stage management, including making a stage manager's book, organizational methods and protocols of production, calling cues in production and personnel relationships and responsibilities.

THE 153 Production Stage Management II

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)
Prerequisite: THE 152
Examines the practical and creative side of Production Stage Management from a participatory stance by serving as the Production Stage Manager for a current PCC production. Participation in this course is subject to an interviewing process with the Show's Director/Producer and is limited to just one student per semester. Interviews will start as much as three months before the semester of enrollment and may last through the first week of the semester of enrollment. This course is a continuation of THE 152.

THE 181 Internship

1-3 Credit Hours • 15 Contact Hours per credit (Lecture)
Prerequisite: THE 111 or THE 144
Focuses on the selection and preparation of audition materials, including prepared monologues, cold reading, and improvisation techniques. Basics of resume preparation are also discussed.

THE 182 Internship

1-3 Credit Hours • 45 Contact Hours per credit hour (Internship)
Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage-managing, and administration is available.

THE 183 Internship

1-3 Credit Hours • 45 Contact Hours per credit hour (Internship)
Allows students to continue to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

THE 204 Voice & Articulation I

2 Credit Hours • 30 Contact Hours (Lecture)
Prerequisite: CCR 092
Emphasizes vocal development including diction, enunciation, projection, dialects, and vocal interpretation of written materials. Students strive to eliminate regionalisms and tonal faults, e.g., nasality, stridency, sibilance, breathiness.

THE 205 Voice & Articulation II

2 Credit Hours • 30 Contact Hours (Lecture)
Prerequisite: THE 204
Emphasizes vocal development including diction, enunciation, projection, dialects, and vocal interpretation of written materials. Students strive to eliminate regionalisms and tonal faults, e.g.,

nasality, stridency, sibilance, breathiness. A continuation of THE 204.

THE 211 Development of Theatre Greek-Renaissance: AH1

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092
Surveys the history and evolution of drama from Ancient Greece to the Renaissance, emphasizing all aspects of the art from period values to analysis of dramatic literature and performance.

THE 212 Development of Theatre Restoration to Modern: AH1

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092
Surveys the history and evolution of drama from the Renaissance to the present, emphasizing all aspects of the art from period values to the analysis of dramatic literature and performance.

THE 213 Intermediate Acting I

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092, THE 112
Continues THE 112. Emphasis is on artistic concentration of voice and movement. A detailed character biography is required.

THE 214 Intermediate Acting II

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: CCR 092, THE 213
Emphasizes artistic concentration of voice and movement. Detailed character biography is required. This course is a continuation of THE 211.

THE 215 Playwriting

3 Credit Hours • 45 Contact Hours (Lecture)
Gives students the opportunity to learn and practice playwriting techniques, thereby improving creative writing skills. Elements of dramatic structure, dialogue, styles, and theatrical practices are emphasized.

THE 216 Theatre Lighting and Design

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: THE 116
Focuses on the theory and practice of stage lighting. Topics include basic electrical theory, color theories, rigging and design of lighting for the performing arts.

THE 218 Readers Theatre

3 Credit Hours • 45 Contact Hours (Lecture)
Studies ensemble interpretation of literature—poetry, prose, and drama, primarily through the medium of the spoken word.

THE 220 Directing I

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: THE 111
Covers basic techniques for stage directing in contemporary theatre. Topics to be covered include stage composition, script analysis, work with actors, and the collaborative role of the director.

THE 230 Directing II

3 Credit Hours • 45 Contact Hours (Lecture)
Prerequisite: THE 220
Continues to explore basic technique for stage directing in contemporary theatre. Subjects to be covered are stage composition, script analysis, work with actors, and the collaborative role of the director. Student will direct a one act theatre piece for final project.

THE 231 Theatre Production III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)
Prerequisite: CCR 092, THE 111
Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

THE 232 Theatre Production IV

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: CCR 092, THE 111

Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

THE 246 Rehearsal & Performance

1 Credit Hour • 30 Contact Hours (Lab)

Prerequisite: CCR 092, THE 131

Gives the student actor practical experience in a real acting environment. Through the audition and rehearsal process the student's imagination and creative potential will be stimulated. Special attention will be given to characterization, stage movement, speech techniques, dramatic form and the rehearsal / production / performance process. The successful rehearsal and presentation of the current production to the public will be the focal point of their activities. Previous acting experience is helpful but not required.

THE 247 Rehearsal & Performance II

2 Credit Hours • 45 Contact Hours (15 Lecture, 30 Lab)

Prerequisite: CCR 092, THE 131

Gives the student actor practical experience in a real acting environment. Through the audition and rehearsal process the student's imagination and creative potential will be stimulated. Special attention will be given to characterization, stage movement, speech techniques, dramatic form and the rehearsal / production / performance process. The successful rehearsal and presentation of the current production to the public will be the focal point of their activities. Previous acting experience is helpful but not required.

THE 248 Rehearsal & Performance III

3 Credit Hours • 75 Contact Hours (15 Lecture, 60 Lab)

Prerequisite: CCR 092, THE 131

Gives the student actor practical experience in a real acting environment. Through the audition and rehearsal process the student's imagination and creative potential will be stimulated. Special attention will be given to characterization, stage movement, speech techniques, dramatic form and the rehearsal / production / performance process. The successful rehearsal and presentation of the current production to the public will be the focal point of their activities. Previous acting experience is helpful but not required.

THE 255 Intermediate Playwriting

3 Credit Hours • 45 Contact Hours (Lecture)

Continues to explore playwriting techniques developed in THE 215 for theatre and applies concepts of writing for movie, television, radio, and animation scripts, with emphasis on the dramatic process and form.

Translation & Tourism Courses**TRI 101 Introduction to Translation and Interpretation**

3 Credit Hours • 45 Contact Hours (Lecture)

Presents an introduction to translation and interpretation including basic principles, procedures, and techniques; a portrait of the work duties of the various types of translators and interpreters; and theoretical foundations for translation and interpretation.

TRI 102 Business of Translation and Interpretation

2 Credit Hours • 30 Contact Hours (Lecture)

Presents an overview of the business of translation and interpretation including job searching, how to start a business, qualifications, and essential technologies.

TRI 103 Ethics of Translation and Interpretation

2 Credit Hours • 30 Contact Hours (Lecture)

Presents the general National and State ethical guidelines that govern the conduct of professional interpreters and translators and the role of cultural competence in effective translation and interpretation.

TRI 201 Consecutive Interpretation

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: TRI 101, TRI 102, TRI 103

Presents the theory, history, and skills of consecutive interpretation and fosters the practical application of these skills.

TRI 202 Simultaneous Interpretation

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: TRI 101, TRI 102, TRI 103

Presents the theory, history, and skills of simultaneous interpretation and fosters the practical application of these skills.

TRI 203 Sight Translation

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: TRI 101, TRI 102, TRI 103

Presents the theory, history, and skills of sight translation and fosters the practical application of these skills.

Water Quality Management Courses**WQM 100 Introduction to Water Quality**

3 Credit Hours • 45 Contact Hours (Lecture)

Prerequisite: MAT 050 (Grade of C or higher)

Introduces the water and wastewater treatment field and the various applied science concepts that are used to operate, maintain and monitor water quality. Topics include the hydrological cycle, water sources, hydraulics, ecosystems, pollution, water chemistry, water calculations, microbiological aspects of water and water quality control.

WQM 105 Specific Calculations for Water Quality Management

4 Credit Hours • 60 Contact Hours (Lecture)

Prerequisite: MAT 050 (Grade of C or higher)

Provides an in-depth study of the calculations associated with water and wastewater treatment. Topics include dimensional analysis, manipulation of conversion factors, geometric figures, velocities, detention time, surface loading, filtration and backwash rates, porosity, weir overflow rates, efficiencies, weight of dry solids, sludge pumping, settleable solids, volatile solids, mean cell residence times, settleability, disinfection and chemical dosage as relating to trickling filters, ponds, RBC, and activated sludge.

WQM 106 Mechanical – Physical Treatment

3 Credit Hours • 45 Contact Hours (Lecture)

Serves as a basic introduction into wastewater treatment. Topics include the technician and their responsibility, effects of waste discharges, natural cycles, solids in wastewater, NPDES permits, collection systems, pretreatment, primary treatment, secondary treatment, advanced treatment, flow measuring, solids handling and disposal.

WQM 109 Water Distribution

3 Credit Hours • 45 Contact Hours (Lecture)

Covers the purpose, selection and location of water storage facilities and the operation and maintenance of related equipment. Topics include storage facilities and capabilities, booster pumps, water mains and appurtenances, joints, pipe protection and installation, valves, fittings and hydrants. Water quality standards, contaminants and degradation inspection and monitoring, system troubleshooting, surveillance, cross connections, pressure main breaks, corrosion control, disinfection and emergency planning are also covered.

WQM 115 Water Sources and Supplies

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an introduction into the water supply systems and sources of water. Topics include sources and selection of water, water quality problems, reservoir management, intake structures, well and introductory plant operations.

WQM 116 Conventional Surface Water Treatment

3 Credit Hours • 45 Contact Hours (Lecture)

Covers coagulation, flocculation, sedimentation, filtering, corrosion and taste and odors. Topics for each process include descriptions, operating procedures, associated calculations, start-up and shut down procedures, laboratory tests, troubleshooting, maintenance, safety and records.

WQM 118 Wastewater Collections Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Covers the purpose, components and design of collection systems. Topics include safety procedures, inspection and testing, pipeline cleaning and maintenance, underground repair, lift stations and sewer rehabilitation.

WQM 119 Basic Water Quality Analysis

4 Credit Hours • 60 Contact Hours (Lecture)

Relates the results of laboratory control tests to the chemistry of water and wastewater treatment. Students gain the skills and techniques to operate within a laboratory. Topics include laboratory equipment and instrumentation-identification, set-up and calibration, safety, sample collection and preservation, written reports and laboratory tests. Laboratory testing includes hardness, alkalinity, dissolved oxygen, biochemical oxygen demand, chlorine residual, pH, phosphorus, dissolved solids, total solids, suspended solids, turbidity, langier index, fluoride and biomonitoring.

WQM 122 Basic Electricity for Water Quality Systems

4 Credit Hours • 60 Contact Hours (Lecture)

Provides an understanding of electrical theory, various types of electrical equipment found in treatment facilities, operation, troubleshooting basic electrical problems, and safety procedures.

WQM 126 Safety & Security Systems

3 Credit Hours • 45 Contact Hours (Lecture)

Provides an in-depth study of all applied safety aspects in the water and wastewater industry. Topics of study include development of safety policies and programs, job safety orientation, driving practices, CPR / first aid, confined spaces, Permit Required Confined Spaces (PRCS), air monitoring and displacement requirements, safety with energy - electrical, mechanical and pressure - trenching, street work, laboratory, treatment equipment, construction vehicles/equipment, chlorine as well as other chemical handling, security and safety standards as determined by the Bioterrorism Preparedness Act of 2002.

WQM 127 Utility Management

3 Credit Hours • 45 Contact Hours (Lecture)

Designed to introduce students to the fundamental business practices that are utilized in managing a water or wastewater utility. Topics include the functions of a manager, planning, organizing, staffing, public relations, financial management, regulatory compliance, safety, and operations and maintenance from a management perspective.

WQM 200 Hydraulics for Water Quality Management

4 Credit Hours • 60 Contact Hours (Lecture)

Introduces the mathematical principles of density, specific gravity, pressures, horsepower and energy costs, velocities, weirs, parshall flumes, venturi meters, California Pipe method, flows from open end pipes, settling velocities and classification of flows.

WQM 202 Small Water Operations & Maintenance

3 Credit Hours • 45 Contact Hours (Lecture)

Designed to introduce students to the practical, hands-on aspects of the safe and effective operation and maintenance of small

water systems and treatment plants. Topics include the safe operation and maintenance of wells, pumps, disinfection equipment, small water treatment plants, storage facilities, pipes, joints, hydrants, valves, meters, and backflow prevention devices for the small water system operator.

WQM 203 Small Wastewater System Operations & Maintenance

3 Credit Hours • 45 Contact Hours (Lecture)

Designed to introduce students to the practical, hands-on aspects of the safe and effective operation and maintenance of small wastewater collection, treatment, and disposal systems. Topics include the safe operation and maintenance of small water treatment plants, lift stations and other facilities, and maintenance and rehabilitation of collection facilities for the small wastewater system operator.

WQM 212 Drinking Water Regulations

4 Credit Hours • 60 Contact Hours (Lecture)

Provides the knowledge and skills to establish a compliance program for a water treatment facility using ground water, surface water, or ground water influenced by surface water sources. The student will learn all regulatory requirements for microbiological and chemical contamination (organic, inorganic, and radio) for monitoring and reporting operations.

WQM 280 Internship

3 Credit Hours • 135 Contact Hours (Internship)

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.

Welding Courses**WEL 100 Safety for Welders**

1 Credit Hour • 22.5 Contact Hours (Lecture/Lab Combination)

Covers the hazards of welding on health and safety, locating essential safety information from a code or other standard, and identifying and applying shop safety procedures.

WEL 106 Blueprint Reading for Welders & Fitters

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Covers interpreting weld symbols on blueprints, identifying proper layout methods and tools, and proper joint design necessary for various welding processes.

WEL 113 Oxyfuel & Plasma Cutting

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Outlines the skills needed to set up equipment and perform cutting and gouging operations utilizing the oxyacetylene and plasma arc cutting processes.

WEL 114 Oxyacetylene Welding

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Teaches the skills necessary to perform safety inspections, make minor repairs, adjust operating parameters, operate oxyacetylene welding equipment, and perform oxyacetylene welding, brazing, and soldering operations.

WEL 115 Autobody Welding & Cutting

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Introduces welding in all positions on light gauge carbon steel using the GMAW and OAW processes on various joint configurations. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

WEL 121 Structural Welding I

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Covers theory and practice in oxy-acetylene processes with emphasis toward AWS welder qualification with mild steel electrode E-7018 welding in the horizontal and vertical position.

WEL 122 Structural Welding II

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Prerequisite: WEL 121

Continues WEL 121 with final emphasis toward AWS welder qualification with mild steel electrode E-7018 qualification test in the 2G, 3GU, and 4G position.

WEL 124 Introduction to Gas Tungsten Arc Welding

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Covers welding in all positions and on various joint configurations using the GTAW (tig) welding process on carbon steel, stainless steel, and aluminum. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

WEL 125 Introduction to Gas Metal Arc Welding

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Covers welding in all positions and on various joint configurations using the GMAW (mig) welding process on carbon steel, stainless steel, and aluminum. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

WEL 130 Maintenance Welding

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Gives the student a basic understanding of the Oxyacetylene cutting and Arc welding processes, and introduction to the skills and techniques used to develop fillet and groove welds. Students will be introduced to oxyacetylene, shielded, gas metal arc welding equipment set up, and various welding techniques. Safety will be stressed during the course.

WEL 180 Internship

1-4 Credit Hours • 45 Contact Hours per Credit Hour (Internship)

Note: Must have Instructor permission to enroll

Meets the needs of the student in selected specialized area in a work-based environment. Individualized instruction at the job site will be set up based on student's interest and instructor approval.

WEL 200 Advance CAD/CAM Cutting Processes

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: MAC 240

Covers designing and generating images using Mastercam Cad software. Student will be able to cut developed images/parts using Koike Monograph CNC Plasma cutting table. Student should be familiar with basic metallurgy pertaining to the plasma cutting of metals and safety in the welding industry.

WEL 205 Introduction to Ornamental Iron

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Note: Must have Instructor permission to enroll

Covers designing, drawing and fabricating a welded project. Student will demonstrate their ability to use (in a practical application) previously learned techniques using different welding processes.

WEL 224 Advanced Gas Tungsten Arc Welding

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: WEL 124

Covers welding in all positions on carbon steel, stainless steel, and aluminum plate and carbon steel pipe with the GTAW process. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

WEL 225 Advanced Gas Metal Arc Welding

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: WEL 125

Covers welding in all positions on carbon steel plate with the GMAW process. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

WEL 230 Pipe Welding I

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: WEL 122, WEL 224, WEL 225

Covers safety inspections, minor repairs, operating parameters, and operation of SMAW, GMAW, and FCAW equipment in a variety of positions on plain carbon steel pipe joints. Also covers evaluating and solving complex welding and fabrication problems and administering hands on training and supervision to other students during assigned fabrication and welding operations.

WEL 231 Pipe Welding II

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: WEL 230 or concurrent enrollment

Learn to perform safety inspections, make minor repairs, adjust operating parameters, and operate SMAW and GTAW equipment on plain carbon steel pipe joints. The student should also be able to evaluate and solve complex welding and fabrication problems, administer hands on training and supervise other students during assigned fabrication and welding operations.

WEL 240 Pipe Welding Certification

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: WEL 231

Introduces theory and practice in modern welding methods of pressure pipe line and pipe systems. Emphasis toward welder qualification under various codes.

WEL 250 Layout & Fabrication

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Prerequisite: WEL 106

Develops welding and associated skills in the use of drawings and blueprints in planning. Includes designing and layout projects.

WEL 263 Applied Metal Properties

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Note: Instructor approval required

Introduces the study of metal properties, hardness testing, heat treatment, cold working microscopic examination and application of common commercial alloys in industry.

WEL 264 Creative Welding

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Note: Instructor approval required

Introduces design and construction of welded sculptures with the use of different fabrication techniques. This course includes uses of different metalworking machines, hot and cold working practices, and demonstration of coloring and texturing metal.

WEL 280 Internship

1-4 Credit Hours • 45 Contact Hours per Credit Hour (Internship)

Note: Must have Instructor permission to enroll

Offers individualized instruction at job site. The student is encouraged to develop skills needed to enter employment in the welding industry.

WEL 289 Capstone

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Note: Instructor approval required

Demonstrates culmination of learning within a given program of study.

Women's Studies Courses**WST 200 Introduction To Women's Studies: SS3**

3 Credit Hours • 45 Contact Hours (Lecture)

Examines the nature and function of women in society from an interdisciplinary perspective, focusing on the similarity and diversity of women's experience over time and across cultures. The course will examine topics such as sex role, socialization, political, and philosophical perspectives on women's issues, and women's accomplishments in history, art, literature, science, health issues and the family. Students will gain an awareness of the limitations of traditional scholarship on women, and gain a

means of practical application of the new scholarship on women's roles and nature.

Zoo Keeping Courses

ZOO 100 Safety/Zoonoses/Hazardous Materials

0.5 Credit Hour • 11.25 Contact Hours (Lecture/Lab Combination)

Prepares students to deal in a safe and effective manner with the hazards and hazardous materials involved in zoo keeping.

ZOO 101 Introduction to Zoo Keeping; Science, Safety and Career Development of Zoo Keeping

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Exposes students to the reality of the physical and mental demands of this field and puts into action practical training to simulate these demands. Zoo terminology utilized in this course will be a valuable asset to students in their other Zoo Keeping Technology curriculum and their internships. Incorporating tool use, safety, zoonosis and career development, this 2-credit offering is a perfect introduction to the field of Zoo Keeping and other animal careers.

ZOO 102 Primates

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)

Investigate evolutionary concepts and trends including primate fossil records. Students will examine the taxonomic classification of primates and primate history and participate extensively in behavioral studies that require the acquisition and assemblage of data. Students will gain successful understanding of primate groups, morphology, adaptations, social structures, and conservation issues affecting a multitude of species. Exploring primatology in a thorough study will enable students to compare and contrast learned behaviors from a variety of other animal species as well as adapt techniques from a psychological perspective.

ZOO 104 Animal Training

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Students will be able to apply the basics of classical and operant conditioning in shaping animal behavior in a captive setting. This course provides students with the background and information on how to develop and implement training programs and to condition behaviors. Students will learn and concentrate on utilization positive reinforcement techniques.

ZOO 105 Reptile & Amphibian Husbandry

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Teaches herpetology and herpetological husbandry. The emphasis is on developing a working knowledge of the care and management of captive herptiles.

ZOO 106 Adventures in Zoo Design

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Incorporates topics learned in exhibit design, conservation and horticulture. This course combines in class pre and post trip debriefings along with a 5-day multi-zoo field experience. Provides students with the opportunity to visit world class zoos that have not been researched or studied in their core classes. It expands the students' knowledge and exposes them to a diverse culture of zoos. Looking at zoos in different biomes creates more options to consider for their zookeeping career.

ZOO 110 Wild Cats-Conservation and Management

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Explores the Family Felidae, in both the wild and captive settings. This intensive course will provide the student with a working knowledge of the care, management and conservation of felids.

ZOO 111 Ungulates-The Hoofed Mammals

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Exclusively explores the ungulates, in both the wild and captive settings. This intensive course will provide the student with a

working knowledge of the care, management and conservation of hoofed mammals.

ZOO 112 Elephants: An Introduction

1 Credit Hour • 15 Contact Hours (Lecture)

Explore the natural history of the two current living genera of elephants, their status in the wild and status in captivity. Discover the challenges and conservation efforts both in the wild populations and in captive settings being made to save these animals. Elephant anatomy and physiology will be explored as well as the basics of captive husbandry techniques.

ZOO 115 Bird Husbandry

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Teaches bird husbandry and supplies the student with a working knowledge of the captive care and management of birds.

ZOO 117 Animal Conservation in Captivity

3 Credit Hours • 45 Contact Hours (Lecture)

Studies the importance of animal conservation programs in captive environments throughout the world. The background, current programs, and future issues will be discussed. Some topics will include animal's relationships with man, zoo programs, and extinction issues.

ZOO 120 Bats: An Introduction

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Explore why bats, representing 20 percent of all mammalian species, are still misunderstood and maligned. This class will demystify bats as well as give students a new appreciation for this umbrella species. Wild populations and husbandry of captive populations will be covered.

ZOO 122 Primatology: Captive Apes

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)

Focuses on lesser and great ape species. Course work covers husbandry, biology, enrichment, field studies and housing requirements of captive apes. This course will explore issues affecting populations in their natural habitats, including bushmeat and palm oil crisis, habitat destruction and the pet trade. Students will investigate ape language studies and perceptions through culture and literature.

ZOO 125 Mammal Husbandry

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Teaches the student mammal biology and husbandry, and provides the student with a working knowledge of the care and management of captive mammals.

ZOO 135 Fish & Invertebrate Husbandry

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)

Teaches the student fish and aquatic invertebrate biology and husbandry. Course provides the student with a working knowledge of the care of aquatic life, including management of closed systems.

ZOO 180 Zoo Keeping Internship I

5 Credit Hours • 225 Contact Hours (Internship)

Prerequisite: BIO 150, ZOO 100; successful completion or concurrent in enrollment in ZOO 125

Grading: S/U only

Provides work experience at the Cheyenne Mountain Zoo or other approved facility. The student will become competent in the care of the animals studied within each internship.

ZOO 181 Zoo Keeping Internship II

5 Credit Hours • 225 Contact Hours (Internship)

Prerequisite: BIO 150, ZOO 100; successful completion or concurrent in enrollment in ZOO 125

Grading: S/U only

Provides work experience at the Cheyenne Mountain Zoo or other approved facility. The student will become competent in the care of the animals studied within each internship.

ZOO 200 Advance Exhibitory Techniques

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
 Requires successful completion of the Exhibit Design for Zoo Keepers course. Students will apply practical basics of keeper level exhibit design and renovations. Students will develop and implement changes within an existing or new exhibit using hands-on techniques and applications. Students will gain an understanding of the dynamics of building an exhibit that meets both animal needs and enables proper husbandry. Students will learn skills that enable them to construct exhibits and design components that can be incorporated into animal exhibits.

ZOO 206 Exhibit Horticulture Design for Zoo Exhibits

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)
 Design zoo habitats to include plant and animal specimens. Students will plan, interpret, construct, and enrich animal enclosures according to individual animal needs. Students will propagate and care for plants that will become key components for animal enclosures.

ZOO 207 Animal Behavior

3 Credit Hours • 67.5 Contact Hours (Lecture/Lab Combination)
 Provides a brief history of ethology, forms of animal communication, the sensory world of animals, programmed vs. learned behavior, navigation, and mating behaviors. Students will be given an in-depth look at how animal behavior is affected by a zoo environment and how to correct stereotypic behaviors that are often seen in captive animals.

ZOO 212 Elephant Management

2 Credit Hours • 45 Contact Hours (Lecture/Lab Combination)
Prerequisite: ZOO 100
 Expand on knowledge of applicable husbandry skills, equipment types, and handling techniques. Experience the physical and mental demands and building structures required to manage elephants in captive environments. Learn about daily routines that are preformed, such as, cleaning, feeding, training, enrichment, and health maintenance through hands on experience at two elephant facilities.

ZOO 215 Veterinary Zoo Keeping

4 Credit Hours • 90 Contact Hours (Lecture/Lab Combination)
 Explores a wide variety of topics including but not limited to quarantine procedures, immobilization, zoonotic disease, and other important aspects of veterinary animal management.

ZOO 280 Zoo Keeping Internship III

5 Credit Hours • 225 Contact Hours (Internship)
Prerequisite: BIO 150, ZOO 100; successful completion or concurrent in enrollment in ZOO 105 and/or ZOO 115
 Grading: S/U only
 Provides work experience at the Cheyenne Mountain Zoo or other approved facility. The student will become competent in the care of the animals studied within each internship.

ZOO 281 Internship – Abroad

5 Credit Hours • 225 Contact Hours (Internship)
Prerequisite: BIO 150, ZOO 100; successful completion or concurrent in enrollment in ZOO 105 and/or ZOO 125
 Grading: S/U only
 Provides work experience at a pre-approved facility. The student will become competent in the care of the animals within a specified area of study.

COLLEGE ADMINISTRATIVE STAFF

In This Section

Officers of the College	219
President's Staff	219
Instructional Services Staff	219
Administrative Services Staff	219
Enrollment Services Staff	219
Student Success Staff	220

Officers of the College

President	Lance Bolton, Ph.D.
Vice President for Administrative Services	Brenda Lauer
Vice President for Enrollment Services	Vacant
Vice President for Instructional Services	Lisa Donaldson
Vice President for Student Success	Felix Lopez
Vice President of Workforce Development	Debbie Sagen

President's Staff

Executive Assistant to the President/ Ombudsman	Kimberly Barnett
Executive Director of Marketing and Communications	Allison Cortez
Executive Director of Foundation, Resource and Community Development	Sue Moore Fenske
Executive Director of Human Resource Services	Carlton Brooks
Executive Director of Institutional Effectiveness	Patricia Diawara

Instructional Services Staff

Assistant to the Vice President for Instructional Services for Student Advising	Wayne Artis
--	-------------

Deans

Business, Public Service & Social Sciences	
Dean	Vacant
Associate Dean of Law, Public Safety and Human Services	Rob Hudson
Associate Dean of Business & Technology	Robert Herndon
Communications, Humanities, and Technical Studies	
Dean	Frances Hetrick
Associate Dean of Communications	Sharon Hogg
Associate Dean of Transfer Disciplines	Vacant
Associate Dean of Manufacturing, Workforce and CTE	James Kynor
Health & Science	
Dean	Evan McHugh
Associate Dean	Kristen Johnson
Associate Dean	Michael Madson
High School Programs/Concurrent Enrollment	
Dean	Chelsy Harris
Math & English	
Dean	Jacquelyn Gaiters-Jordan
Associate Dean	Philip Anderson
Assistant Dean	Stephanie Long
Associate Dean	Joseph Southcott

Directors

eLearning	Wendy MacColl
Instructional Support	Julie Hazel
Library Services	Carole Olds
Military & Veterans Programs	Cheri Arfsten
Nursing Program	Mary Nifong

Coordinators

Allied Health Clinical	Lori Morgan
Nursing Sim Lab	Gerri Tierney

Program Administrators

English Language Institute	Andy Likins
Pikes Peak Regional Law Enforcement Academy	Catherine LaBrecque

Administrative Services Staff

Directors

Auxiliary Services	Lorelle Davies
Business Services	Eileen Hogue
Contract and Procurement	Rockie Hurrell
Facilities Maintenance and Operations	Bob Lund
Financial Services/Controller	David Doe
Information Technology Support Services	Cyrille Parent

Assistant Directors

Information Technology Support Services	Fabrizio Labate
Controller Finance	Michelle Fraser-Mills
Grants	Miles Pimentel

Coordinators

Computer Aided Lab	Ernest Hughes
Grants - FS	Patricia Wiesnor
Grants Development	Linda Rains

Managers

Bookstore - Assistant Managers	Nick Schmidt
	Jeff Tamblin
	Chad Jacobson
	Gerri Lyons
Student Accounts - FS	Mustafa Akcadogan
Manager of Technical Support - ITSS	Vacant
Publications and Printing/Copy Center	

Enrollment Services Staff

Dean of Students	Jennifer Sengenberger
Assistant Dean of Students	Dawna Haynes

Directors

Child Care Services	Cynthia Neale-Downing
Career Planning and Advising	Lincoln Wulf
Admissions, Testing, Enrollment Service Center, Records	Jeff Horner
Financial Aid	Ronald Swartwood
Registrar	Twila Humphrey

Assistant Director

Admissions & Recruitment	Kevin Hudgens
--------------------------	---------------

Coordinators

Campus Activities/Student Development	Vacant
Child Development Center – CC	Crystal Connolley
Child Development Center – RRC	Myra Sprague
Pathway Advising, Career Planning and Advising	Kathy Ledwith
Program Advising, Career Planning and Advising	Lisa Schwartz
Recreation/Fitness Center	Kristi Johnson
SCEOC	Vacant
Testing Centers	Peggy Hawke

Student Success Staff**Directors**

Campus Life	Dawn Souza
Disabled Student Support Services (DSSS)	Nichole Pritchett-Hillard
Learning Assistance Center	Crystal Cyr
OASIS/CAC	Maria Mesa
Public Safety/Emergency Management	James Barrentine
Retention	Sylvia Garcia
Student Support Services/TRiO	Ed Quesada
Student Counseling & Resource Center	Yolanda Harris

Assistant Director

OASIS/CAC	Christopher Bunka
-----------	-------------------

Coordinators

Learning Assistance Center	Andrew Scott
Math Specialist/Learning Services	Karey Pharris
New Student Orientation	Megan Smith
Student Resource & Guidance	Vacant
Sustainability	Konrad Schlarbaum

FACULTY & STAFF

In This Section

- State Board for Community Colleges & Occupational Education 233
 Non-Voting Board Members 233
 Colorado Community College System 233
 Pikes Peak Community College Advisory Council 233
 Pikes Peak Community College Catalog Team 233
- ACEVEDO, Andrea
 Administrative Assistant II, Records
- ACHEAMPONG, Angel, A.A.S. (Pikes Peak Community College, 2007)
 Early Childhood Educator I, Child Development Center
- ACRES, Harley
 Faculty of Art, Division of Communications, Humanities & Technical Studies
- ADAMS, Diane
 Administrative Assistant III, Military & Veterans Programs
- ADDINGTON, Pamela
 Data Specialist I, Human Resource Services
- AGGEN, Teresa, M.A. (Stephen F. Austin State University, 1991)
 Associate Professor of English, Division of Math & English
- AGNEW, Jason
 General Labor I, Facilities & Operations
- AGUERO, Theresa L.
 Vocational Credentials: Faculty
 Office Manager I, Division of Health & Science
- AKCADOGAN, Mustafa, M.S. (University of Phoenix, 2003)
 Vocational Credentials: Faculty
 Customer Service Desk Manager, Information Technology Support Services
- AKSE, Kristan, B.A. (Carleton College, 1993)
 Vocational Credentials: Faculty
 Faculty of Multimedia Graphic Design, Area Vocational Program
- ALBERS, Stacy A., A.G.S. (Pikes Peak Community College, 2013)
 General Professional II, Enrollment Services
- ALFONSO, Kristen, B.S. (University of Colorado, 2005)
 Program Assistant I, Division of Health & Science
- ALIRE, Arlene Ann
 Administrative Assistant III, Enrollment Services/Admissions
- ALLEN, Melissa, M.B.A. (Loyola Marymount University, 1999)
 Vocational Credentials: Faculty
 Assistant Professor of Accounting, Division of Business, Public Service & Social Science
- ALLTOP, Marilu, M.S.N. (Regis University, 2005)
 Vocational Credentials: Faculty
 Faculty of Nursing, Division of Health & Science
- ALVARAN, Reginald
 Custodian I, Facilities & Operations
- ANDERSON, Ginger, M.S. (University of Colorado, 2006)
 Assistant Professor of Mathematics, Division of Math & English
- ANDERSON, Matthew
 Sales Manager, Bookstore
- ANDERSON, Miki, M.A. (West Virginia University, 2005)
 Faculty of Economics, Division of Business, Public Service & Social Science
- ANDERSON, Philip, Ed.D. (Texas Tech University, 2002)
 Associate Dean, Division of Math & English
- ANDERSON, Tracey
 Vocational Credentials: Faculty
 Faculty of Zoo Keeping, Division of Health & Science
- ARFSTEN, Cheri, B.A. (University of Colorado, 2005)
 Director of Military & Veterans Programs
- ARNOLD, Christine
 Faculty of CPM, Division of Math & English
- ARTIS, W. Wayne, M.A. (University of Delaware, 1977)
 Professor of History, Division of Communications, Humanities & Technical Studies, Assistant to the VPES for Student Advising
- ASHTON, Holly, M.S. (Iowa State University, 1986)
 Associate Professor of Mathematics, Division of Math & English
- ASHTON, Kevin
 Structural Trades II, Facilities & Operations
- BABIN, Dave
 General Professional II, Enrollment Services/Financial Aid
- BAKER, Connie, A.A.S. (Pikes Peak Community College, 2007)
 Administrative Assistant III, OASIS
- BAKER, Karen
 Administrative Assistant III, eLearning
- BAKER, Patricia
 Administrative Assistant II, Testing Center
- BALLARD, Linda
 Dining Services III, Child Development Center
- BARLOW, Carol
 Administrative Assistant II, Division of Health & Science
- BARNES, Susan
 Police Officer I, Public Safety
- BARRETT, Sherry
 Administrative Assistant II, Career Planning & Advising
- BARNETT, Barbara, A.A.S. (Pikes Peak Community College, 1991)
 Administrative Assistant III, Enrollment Services/Admissions
- BARNETT, Kimberly R., A.G.S. (Pikes Peak Community College, 1991)
 Executive Assistant to the President/Ombudsman, President's Office
- BARR, Carol, B.S. (Park University, 2004)
 Administrative Assistant III, Enrollment Services
- BARRENTINE, James, B.S. (Colorado Christian University, 1995)
 Director, Public Safety/Emergency Management
- BARRIERA, Nicole
 Vocational Credentials: Faculty
 Faculty of Pharmacy Technician, Division of Health & Science
- BARTA, Tim
 Pipe Mechanic Trades I, Facilities & Operations
- BATES, Cheryl, A.A.S. (Pikes Peak Community College, 1998)
 Administrative Assistant III, Office of the Vice President for Instructional Services
- BAUER, Chad, A.A.S. (Pikes Peak Community College, 2005)
 Police Officer III, Public Safety

- BAUER, Patricia
Administrative Assistant II, Office of the Vice President for Instructional Services
- BEAN, Brook, B.A. (Colorado State University, 2010)
Instructional Liaison, Career Planning & Advising
- BECCO, Jo Ellen, M.A. (University of Iowa, 1994)
Associate Professor of English, Division of Math & English
- BEDFORD, Nelene, B.A. (Regis University, 2002)
Administrative Assistant III, Military & Veterans Affairs
- BELL, Stefanie, M.A. (Goddard College, 1977)
Faculty of Psychology, Division of Business, Public Service & Social Science
- BELLER, LeAnne
Accounting Technician III, Financial Services
- BEN-AMOTS, Laura, M.F.A. (University of the Arts, 1992)
Faculty of Art, Division of Communications, Humanities & Technical Studies
- BENDER, Michelle, M.Ed. Cert (University of Denver, 2012)
Vocational Credentials: Faculty
Faculty of Early Childhood Education, Division of Business, Public Service & Social Science
- BERG, Sandra
Vocational Credentials: Faculty
Faculty of Zoo Keeping, Area Vocational Program
- BERGACKER, Dawn, M.A. (University of Wisconsin, 1988)
Reference Librarian, Library
- BICKNELL, Gail A., B.A. (University of Maryland, 2011)
Program Manager, Military & Veterans Programs
- BISHARA, Rebecca
Sales Manager I, Bookstore
- BJORKMAN, Sharon, Ph.D. (Loyola University, 2004)
Faculty of Sociology, Division of Business, Public Service & Social Science
- BLAKE, Shari, A.A. (University of Nebraska, 1987)
Early Childhood Educator I, Child Development Center
- BLOCK, Heidi
Vocational Credentials: Faculty
Faculty of Culinary Arts, Area Vocational Program, Division of Business, Public Service & Social Science
- BOGGS, Lakisha, A.A.S. (Pikes Peak Community College, 2013)
Administrative Assistant II, Human Resource Services
- BOLLING, Linda, A.A.S. (Pikes Peak Community College, 1993)
Library Technician II, Library
- BOLTON, Lance, Ph.D. (University of Georgia, 1997)
President
- BOND, Jeri, A.A.S. (PPI Health Careers School, 1994)
Vocational Credentials: Faculty
Faculty of Radiologic Technology, Health Professional, Division of Health & Science
- BOND, Vicki, L.P.N. (St. Mary's School of Practical Nursing, 1976)
Vocational Credentials: Faculty
Medical Office Technology Program Coordinator, Division of Health & Science
- BOSWORTH, Diane, B.S. (Regis University, 2010)
Vocational Credentials: Faculty
Accounting Technician III, Financial Services
- BRATSCHI, Christopher, J.D. (Thomas M. Cooley Law School, 1990)
Vocational Credentials: Faculty
Faculty of Paralegal, Division of Business, Public Service & Social Science
- BRENTON, John
Vocational Credentials: Faculty
Faculty of Automotive Service Technology, Division of Communications, Humanities & Technical Studies
- BRIDGES, Joshua, B.S. (Colorado State University, 2005)
Recreation & Wellness Specialist, Student Life
- BRINSON, Lorinda
Administrative Assistant III, Career Planning & Advising
- BROOKS, C.R.J., M.P.A. (University of Colorado, 1992)
Executive Director of Human Resource Services
- BROWN, Jason
Customer Support Intern, Information Technology Support Services
- BUDD, Benjamin
Pipe Mechanical Trades II, Facilities & Operations
- BURNETTE, Matthew
Project Manager, Facilities & Operations
- BURTON, Stephen
General Labor I, Facilities & Operations
- BUSBY, Quanetta, A.A.S. (Pikes Peak Community College, 1999)
Early Childhood Educator I, Lead Teacher, Child Development Center
- BUTLER, Sharon, M.S. (Butler University, 1975)
Assistant Professor of Mathematics, Division of Math & English
- CABELLO, Andrea
Administrative Assistant II, Retention Services
- CALLIHAN, Kristy
Assistant Professor of Communication, Division of Communications, Humanities & Technical Studies
- CAMPBELL, Majel, M.A. (University of Georgia, 2005)
Faculty of Spanish, Division of Communications, Humanities & Technical Studies
- CANTU, Antonio
Police Officer I, Public Safety
- CANTWELL, Teresa
Foundation Projects Manager, Foundation
CARLSON-DIGNADICE, Deborah
Administrative Assistant III, Testing Center
- CARPENTER, Justin
Vocational Credentials: Faculty
Faculty of Diesel Power Mechanics, Division of Communications, Humanities & Technical Studies, Area Vocational Program
- CARPENTER, Richard, A.A. (Culinary Institute of America, 1986)
Vocational Credentials: Faculty
Faculty of Culinary Arts, Division of Business, Public Service & Social Science
- CARRILLO, Christina, M.A. (University of Colorado, 2010)
Program Advisor, Career Planning & Advising
- CARRINGTON, Sandra
Early Childhood Educator I, Child Development Center
- CARTER, Sabine, A.A. (University of Maryland, 2002)
Administrative Assistant II, Disabled Student Support Services
- CASE, Jamee
Administrative Assistant III, Purchasing
- CASIAS, Helen, A.A.S. (Pikes Peak Community College, 1997)
Library Technician II, Library
- CASTILLA, Susan
Child Care Aide, Child Development Center

- CATES, David
Vocational Credentials: Faculty
Faculty of Fire Science, Division of Business, Public Service & Social Science
- CAVEL, Jessica
Early Childhood Educator I, Child Development Center
- CHAN, Dianne, M.S. (University of Illinois, 1991)
Debt/Default Management Advisor, Financial Aid
- CHARFAUROS, Kristina
Administrative Assistant II, Testing Center
- CHASE, Lynn, J.D. (Chicago Kent College of Law, 1973)
Vocational Credentials: Faculty
Faculty of Paralegal, Division of Business, Public Service & Social Science
- CHAVEZ, Anthony, A.A.S. (Pueblo Community College, 1986)
Administrative Assistant III, Division of Business, Public Service & Social Science
- CHAVEZ, Christine, Ph.D. (University of the Rockies, 2008)
Crisis Counselor, Student Crisis Counseling Office
- CHROMEY, Kay, A.A. (Pikes Peak Community College, 2003)
Accountant I, Financial Services
- CLARKE, Catherine
Dining Services III, Child Development Center
- CLARKE, William, M.Div. (Union Theological Seminary, 1990)
Faculty of Mathematics, Division of Math & English
- COELHO, Elizabeth, M.A. (San Diego State University, 2008)
Faculty of Astronomy, Division of Health & Science
- COLEMAN, Patricia, M.S. (Troy State University, 1983)
Supplemental Services Assistant, Area Vocational Program
- COLLINS, Stephen, Ph.D. (Northwestern University, 2001)
Professor of Communication, Division of Communications, Humanities & Technical Studies
- COLVIN, Janet
Credit for Prior Learning Specialist, Enrollment Services/Records
- CONNOLLY, Crystal, B.A. (Colorado Christian University, 2010)
Vocational Credentials: Faculty
Coordinator, Child Development Center
- CONRAD, Martin, M.A. (University of Colorado, 2009)
Assistant Professor of Humanities, Division of Communications, Humanities & Technical Studies
- CONSANI, Angela, M.A. (Current Western Governor's University, 2006)
Faculty of Biology, Division of Health & Science
- CONWAY, Daniela, A.A.S. (Pikes Peak Community College, 2000)
Administrative Assistant II, Division of Health & Science
- CORN, Leland, A.A.S. (Pikes Peak Community College, 1996)
Vocational Credentials: Faculty
Faculty of Welding, Division of Communications, Humanities & Technical Studies, Area Vocational Program
- CORNELIUS, Belenda, M.A. (University of Colorado, 1992)
Counseling & Human Services Certification
Recruitment & Admissions Specialist, Enrollment Services
- CORNISH, Amy, M.A. (Colorado State University, 2000)
Faculty of French, Division of Communications, Humanities & Technical Studies
- CORTEZ, Allison, M.A. (University of Colorado, 2009)
Executive Director, Marketing, Recruiting & Communications
- COULLIARD, Michael, M.A. (University of Northern Colorado, 1988)
Champ Grant Program Manager, Division of Communications, Humanities & Technical Studies
- CRAWSHAW, Donald, A.A. (Independence Community College, 1980)
Vocational Credentials: Faculty
Faculty of Heating, Air Conditioning & Refrigeration Technology, Division of Communications, Humanities & Technical Studies
- CUNNINGHAM, Casey
Structural Trades I, Facilities & Operations
- CUSHMAN, Ann, Ph.D. (Colorado State University, 2001)
Associate Professor of Mathematics, Division of Math & English
- CYR, Crystal, M.A. (University of Colorado, 2011)
Director, Learning Assistance Center
- CYR, Sarah, A.A. (Kennebec Valley Community College, 2010)
Administrative Assistant III, Enrollment Services
- DAMPHOUSSE, Donna, B.A. (Regis University, 2010)
Vocational Credentials: Faculty
Faculty of Dental Assisting, Division of Health & Science
- DAVENPORT, Deric, M.S. (University of Arkansas, 1987)
Professor of Mathematics, Division of Math & English
- DAVENPORT, George, M.S. (San Diego State University, 1973)
Faculty of Physics, Division of Health & Science
- DAVIES, Lorelle, M.B.A. (Colorado Technical University, 2007)
Director of Auxiliary Services
- DAVIS, Jennifer
Administrative Assistant II, High School Programs
- DAY, Kimberly G., A.A.S. (Pikes Peak Community College, 1997)
Customer Support Coordinator I, Information Technology Support Services
- DE LOURENCO, Amy
Community Education Program Manager, Extended Learning
- DECH, Debra, A.A. (Pikes Peak Community College, 2006)
Administrative Assistant III, Enrollment Services/Admissions
- DEHERRERA, James, M.S.Ed. (Northern Illinois University, 2000)
Vocational Credentials: Faculty
Faculty of Computer Science, Division of Business, Public Service & Social Science
- DEHERRERA, Laurel, M.S. (Northern Illinois University, 1994)
Faculty of Mathematics, Division of Math & English
- DEITSCH, Eileen, M.S.N. (Pace University, 1993)
Vocational Credentials: Faculty
Faculty of Nursing, Division of Health & Science
- DE LOURENCO, Amy
Community Education Program Manager, Workforce Development
- DENNIS, Scott, B.A. (University of Denver, 1995)
Transition Specialist, TRIO SSS
- DEVAUX, Jason, J.D. (Washington and Lee University, 1998)
Vocational Credentials: Faculty
Faculty of Criminal Justice, Division of Business, Public Service & Social Science
- DIAMOND, Michelle
Electrical Trades II, Facilities & Operations
- DIAS, Elsa
Faculty of Political Science, Division of Business, Public Service & Social Science
- DIAWARA, Patricia
Executive Director, Institutional Effectiveness
- DIEBALL, Nancy, M.S. (Colorado State University, 1979)
Vocational Credentials: Faculty
Associate Professor of Accounting, Division of Business, Public Service & Social Science

- DIJULIO, Bliss, M.S. (Angelo State University, 2003)
Faculty of Psychology, Division of Business, Public Service & Social Science
- DIXON, Donnell
Custodian I, Facilities & Operations
- DOE, David
Director of Financial Services/Controller, Financial Services
- DOHERTY, Jodi, M.F.A. (Lesley University, 2007)
Program Assistant/Recruiter, Military & Veterans Programs
- DONALDSON, Lisa
Vice President for Instructional Services, Office of the President
- DOWNEY, Cheryl, Ph.D. (University of Hawaii, 1998)
Mental Health Emergency Planner, Crisis Counseling
- DUNCAN, Carrie, A.A.S. (Portland Community College, 2009)
Early Childhood Educator II, Child Development Center
- DUNN, Steven
Sales Manager, Bookstore
- DUTTON, Ashlee, M.P.A. (Capella University, 2012)
Assistant Directory of Financial Aid for Customer Service & Technology, Financial Aid
- ECHEVARRIA, Jean, M.A. (Colorado State University, 1989)
Faculty of English Language Institute, Division of Math & English
- EDMUND, Marylou
Early Childhood Educator I, Child Development Center
- EIFERD, Richard
Structural Trades II, Facilities & Operations
- ELLARD, Cheryl, B.A. (Iowa Wesleyan College, 1975)
Administrative Assistant II, Student Life
- ELLIS, Carl
Media Specialist IV, Information Technology Support Services
- ELTHORP, Michele A., A.S. (Pikes Peak Community College, 1997)
Early Childhood Educator II, Child Development Center
- ERVIN, Keith
Police Officer I, Public Safety
- ESPINOSA, Jose
Custodian I, Facilities & Operations
- ESPINOSA, Tony
Grounds & Nursery I, Facilities & Operations
- ESPINOZA, Claude, A.A.S. (Pikes Peak Community College, 2002)
Administrative Assistant II, Enrollment Services
- ETAUGH, Heather, A.A.S. (Pikes Peak Community College, 2005)
Administrative Assistant III, Department of Public Safety
- EVERETT, Jami, A.G.S. (Pikes Peak Community College, 2003)
IT Professional II, Information Technology Support Services
- EYMANN, Vanessa
Tutor/Assistive Technology Specialist, Disabled Student Support Services
- FALKINBURG, Britney
Program Advisor, Career Planning & Advising
- FALLDORF, Peter, M.A. (Hofstra University, 1986)
Assistant Professor of Biology, Division of Health & Science
- FAMBROUGH, Scott
Vocational Credentials: Faculty
Faculty of Electronics, Division of Communications, Humanities & Technical Studies
- FARRAR, Shae L., B.A. (Regis University, 2005)
General Professional III, Contracting & Purchasing Department
- FENSKE, Sue Moore
Executive Director of Foundation, Resource and Community Development, Foundation
- FERGUSON, Michael, B.A. (University of Colorado, 2014)
Administrative Assistant III, Division of Business, Public Service & Social Science
- FERRIS, Priscilla
Administrative Assistant II, Division of Math & English
- FILIPIAK, Amy, M.B.S. (University of Colorado, 2003), M.P.A. (University of Colorado, 2009)
Faculty of Geography, Division of Health & Science
- FISH, Kelly, M.A. (University of California, 1980)
Faculty of Reading, Division of Math & English
- FISCHER, Brian
Police Officer I, Public Safety
- FLYNN, William
Administrative Assistant II, Military & Veterans Programs
- FORAND, Emily, M.A. (New Mexico State, 2006)
Faculty of English, Division of Math & English
- FOSTER, Rick, Ph.D. (University of Colorado, 1996)
Faculty of Political Science, Division of Business, Public Service & Social Science
- FRANK, Greg
Administrative Assistant II, Enrollment Services
- FRASER-MILLS, Michelle
Assistant Controller Finance, Financial Services
- FRAZIER, Steve
Custodian I, Facilities & Operations
- FRYDRYCH, Marilyn
Faculty of Mathematics, Division of Math & English
- FULLER, Erica, A.A. (Blair Junior College, 2004)
Administrative Assistant II, Enrollment Services/Admissions
- FURAU, Vicki M.
General Professional II, Financial Aid
- GAGNON, Catherine, M.S.N. (University of Phoenix, 2000)
Vocational Credentials: Faculty
Associate Professor of Nursing, Division of Health & Science
- GAITERS-JORDAN, Jacquelyn, M.A. (University of Colorado, 2005)
Dean, Division of Math & English
- GALLEGOS, Lisa
Disability Specialist, Disability Student Support Services
- GALLEGOS, Lonnie
Custodian II, Facilities & Operations
- GANARD, Maria, B.S. (Pennsylvania State University, 1989)
Early Childhood Educator I, Child Development Center
- GARCIA, Jennifer
Early Childhood Educator I, Child Development Center
- GARCIA, Sylvia, B.A. (University of Denver, 1974)
Director, Retention Services, Student Support Services
- GARRELTS, Ryan
Police Officer II, Public Safety
- GATES, Kristine
Vocational Credentials: Faculty
Faculty of Zoo Keeping, Division of Health & Science
- GEARY, Heather, B.S. (University of Pittsburgh, 1996)
Recruitment & Admissions Specialist, Enrollment Services
- GENSCHORCK, Laura A., A.G.S. (Pikes Peak Community College, 1995)
General Professional II, Human Resource Services

- GENTZEL, John, B.S.N. (University of Colorado, 2008)
Vocational Credentials: Faculty
Faculty of Nursing, Division of Health & Science
- GERING, Carolyn
Child Care Aide, Child Development Center
- GERTH,Carolynn, A.A.S. (Pikes Peak Community College, 2003)
Accounting Technician III, Purchasing
- GIDDINGS, Larry A., M.A. (Humboldt State University, 1989)
Faculty of English, Division of Math & English
- GILE, Angelica
Early Childhood Educator I, Child Development Center
- GLASER, Lorraine
Accounting Technician III, Financial Services
- GMINSKI, Christopher, B.A. (University of Colorado, 2009)
Intervention/Advising Specialist, Retention Services
- GOODNIGHT, Loretta, A.A.S. (Pikes Peak Community College, 2006)
Administrative Assistant II, Enrollment Services
- GOROSKI, Sara, M.L.S. (Emporia State University, 2003)
Reference & Instruction Librarian, Library
- GRACE, Gayle, B.M. (Friends University, 1974)
Faculty of Music, Division of Communications, Humanities & Technical Studies
- GRIPPO, Steven, B.A. (University of Colorado, 2007)
Administrative Assistant III, Division of Math & English
- GROSCHKE, David, M.A. (Boston University, 1988)
Program Advisor, Career Planning & Advising
- GRUSING, Barbara, A.A. (Pikes Peak Community College, 1992)
Accounting Technician III, Financial Services
- GUTSCHICK, James
Vocational Credentials: Faculty
Faculty of Fire Science, Division of Business, Public Service & Social Science
- HALL, Diana
Administrative Assistant III, Division of Communications, Humanities & Technical Studies
- HANDKE, Jan, M.S. (Harvard School of Public Health, 1975)
Administrative Assistant II, Division of Math & English
- HANRATTY, Margaret, M.A. (University of Minnesota, 1996)
Associate Professor of English, Division of Math & English
- HANS, Ashleigh
Administrative Assistant II, Records
- HAROLD, Charly
Early Childhood Educator I, Child Development Center
- HARRIS, Chelsy, M.Ed. (Xavier University, 2005)
Vocational Credentials: Faculty
Dean of High School Programs & Concurrent Enrollment
- HARRIS, Luke
Marketing Webmaster, Marketing & Communications
- HARRIS, Yolanda, M.A. (University of Northern Colorado, 2003)
Director, Student Counseling & Resource Center, Student Crisis Counseling
- HARTMAN, Tamara, A.A.S. (Pikes Peak Community College, 1984)
General Professional III, Human Resource Services
- HARVEY, Sandi, M.A. (Wichita State University, 2010)
Faculty of Anthropology, Division of Business, Public Service & Social Science
- HASTINGS, Rudy
Structural Trades I, Facilities & Operations
- HAWKINS, Tiffany, A.A.S. (Pikes Peak Community College, 2008)
Administrative Assistant II, Testing Center
- HAYES, David, A.A.S. (Pikes Peak Community College, 2005)
Lead Application Developer, Information Technology Support Services
- HAYNES, Dawna, M.S. (Central Michigan University, 2006)
Assistant Dean of Students, Dean of Students
- HAYNES, Jayme, B.S.N. (University of Colorado, 2002)
Vocational Credentials: Faculty
Faculty of Nursing, Division of Health & Science
- HAZEL, Julie, B.A. (University of Colorado, 2000)
Director of Instructional Support, Vice President for Instructional Services
- HAZEL-DESTEFANO, Jeannie, A.A.S. (Pikes Peak Community College, 1998)
Vocational Credentials: Faculty
Program Assistant I, Office of Accommodative Service & Instructional Support
- HECTOR, Tracy
Custodian I, Facilities & Operations
- HEMESATH, Michael, A.G.S. (Pikes Peak Community College, 1999)
IT Technician II, Information Technology Support Services
- HENDERSON, Becky, B.A. (Oklahoma Baptist University, 1998)
Accounting Technician III, Financial Services
- HENDERSON, Robert, M.A. (University of California at Los Angeles, 1970)
Professor of Biology, Division of Health & Science
- HENNESSY, Kim, J.D. (University of Cincinnati, 1977)
Assistant Director, Human Resource Services
- HENRICH, Cathy, M.A. (University of Connecticut, 1981)
Faculty of Literature, Division of Math & English
- HENSELMAN, Joneila
CCAMPIS Coordinator, Child Development Center
- HERNANDEZ, Ernesto, M.S. (Colorado State University, 1992)
Vocational Credentials: Faculty
Faculty of Biology, Division of Health & Science
- HERNDON, Robert, M.S. (Notre Dame, 1994)
Associate Dean of Business and Technology, Division of Business, Public Service & Social Science
- HERRAEZ SANCHEZ, Juan-Carlos, M.S. (University of Southern Colorado, 1995)
Vocational Credentials: Faculty
Professor of Chemistry, Division of Health & Science
- HERRERA, Christopher
Grounds & Nursery I, Facilities & Operations
- HERRERA, Mitchell
Custodian I, Facilities & Operations
- HERRERA, Pete, A.A.S. (Pikes Peak Community College, 1981)
Custodian I, Facilities & Operations
- HERRON, Alfred
Custodian II, Facilities & Operations
- HETRICK, Frances
Dean, Division of Communications, Humanities & Technical Studies
- HETZLER, Stuart
Sales Assistant I, Bookstore
- HICKS, Rebecca, M.Ed. (Marymount University, 1995)
Faculty of English Language Institute, Division of Math & English

- HIJAR, Cynthia
Program Assistant I, Assistant to the Vice President for Instructional Services
- HINO, Gary, A.A.S. (Pikes Peak Community College, 2007)
Vocational Credentials: Faculty
Faculty of Culinary Arts, Division of Business, Public Service & Social Science
- HODGE, Michele, B.A. (University of North Florida, 1999)
General Professional II, Human Resource Services
- HOGG, Sharon, B.S. (Slippery Rock State College, 1978)
Vocational Credentials: Faculty
Associate Dean of Fine Arts & CTE, Division of Communications, Humanities & Technical Studies
- HOGUE, Eileen, M.S. (Colorado Technical University, 2005)
Director of Business Services
- HOLMES, Jennifer, M.S. (University of Colorado, 2010)
Faculty of Mathematics, Division of Math & English
- HOPPER, Tarasa
Administrative Assistant III, Libraries
- HORNER, Jeffrey, M.A. (New School University, 1974)
Director of Admissions, Records, Enrollment Services Centers, & Testing, Enrollment Services & Records
- HORTON, Gary, B.S. (Colorado State University, 2014)
Faculty of Law Enforcement Services, Division of Business, Public Service & Social Science
- HOWELL, Dionne, M.F.A. (School of Arts Institute, 2008)
Assistant Professor of English, Division of Math & English
- HSU, Li-Ing
Report Writer & Analyst, Institutional Effectiveness
- HUDDLESTUN, Brittany
Accounting Technician I, Financial Services
- HUDGENS, Kevin
Assistant Director of Recruitment and Admissions, Enrollment Services
- HUDSON, Robert, M.A. (Ashford University, 2014)
Vocational Credentials: Faculty
Associate Dean of Law, Public Safety & Human Services, Division of Business, Public Service & Social Science
- HUGHES, Ernest, B.A. (Regis University, 2010)
Computer Assisted Instruction Lab Coordinator, Information Technology Support Services
- HULL, Misty, M.A. (Colorado Christian University, 2001)
Professor of Psychology, Division of Business, Public Service & Social Science
- HUMPHREY, Michael
State Services Trainee II, Financial Aid
- HUMPHREY, Twila, B.S. (Fort Hays State University, 2011)
Registrar/Coordinator - Records, Enrollment Services
- HURRELL, Dennis
Vocational Credentials: Faculty
Materials Handler III, Bookstore
- HURRELL, Rockie
General Professional IV, Contracting & Purchasing
- HUTTO, Crystal
Child Care Aide, Child Development Center
- HYDE, ReeAnn, M.A. (Fuller Theological Seminary, 1997)
Instructional Liaison, Career Planning & Advising
- IMKE, Steven
Project Director, Community Entrepreneurship Initiative, Workforce Development
- IZOLD, Colleen
Administrative Assistant II, Testing Center
- IZOLD, Mark, M.S. (Ohio State University, 1993)
Associate Professor of Geology, Division of Health & Science
- JACKSON, Ilah, B.S. (University of New Mexico, 2000)
Vocational Credentials: Faculty
Faculty of Interpreter Prep Program, Division of Communications, Humanities & Technical Studies
- JACOBSON, Chad, A.A.S. (Pikes Peak Community College, 2006)
Sales Manager I, Bookstore
- JAKEMAN, Leslie, B.A. (University of Colorado, 1983)
Employer Relations Specialist, Workforce
- JANOS, Marcia, B.S. (Oakland University, 1989)
Vocational Credentials: Faculty
Faculty of Pharmacy Technician, Division of Health & Science
- JENSEN, Heidi
Administrative Assistant II, Military & Veterans Programs
- JIMENEZ, Davina
Administrative Assistant III, Financial Aid
- JOBE, Danen, M.F.A. (University of Arkansas, 2007)
Faculty of English, Division of Math & English
- JOHNSON, Brian, M.S. (Air Force Institute of Technology)
Application Developer, Information Technology Support Services
- JOHNSON, Janele, M.A. (Oklahoma State University, 1988)
Faculty of English, Division of Math & English
- JOHNSON, Kristen, M.S.E.D. (Purdue University, 2003)
Associate Dean, Division of Health & Science
- JOHNSON, Kristi
Vocational Credentials: Faculty
Faculty of Physical Education, Division of Health & Science
- JOHNSON, Kristofor
Vocational Credentials: Faculty
Faculty of Fire Science, Division of Business, Public Service & Social Science
- JOHNSON, Leonardo, A.A. (Pikes Peak Community College, 2005)
IT Technician I, Information Technology Support Services
- JOHNSON-AKSE, Theresa
Vocational Credentials: Faculty
Faculty of Computer Science, Division of Business, Public Service & Social Science
- JONAS-MORRISON, Carol, M.S. (New Mexico Institute of Mining & Technology, 1993)
Faculty of Mathematics, Division of Math & English
- JONES, Robert
Electronics Specialist II, Information Technology Support Services
- JOSEPHS, Bernard
Custodian I, Facilities & Operations
- JUEL, Jamie
General Professional II, Financial Aid
- KALLETTA, Sheridan
Community Entrepreneurship Initiative Coordinator, Workforce Development
- KAMILAR, Cindy, Ph.D. (University of Miami, 1993)
Professor of Psychology, Division of Business, Public Service & Social Science
- KELLERMAN, Raymond
Workforce Development Operations Manager, Workforce Development

- KELLY, Thomas E., M.Ed. (Lesley University, 1995)
Vocational Credentials: Faculty
Associate Professor of Architecture, Division of Communications, Humanities & Technical Studies
- KILGORE, Doyle
Police Officer I, Public Safety
- KIM, Su Il, Ph.D. (McMaster University, 1985)
Professor of Anthropology, Division of Business, Public Service & Social Science
- KIMBRELL, Judith, B.A. (Hillsdale College, 1996)
Vocational Credentials: Faculty
Assistant Professor of Art/Photography, Division of Communications, Humanities & Technical Studies
- KING, Mark, M.A. (New Mexico State University, 1998)
Faculty of English, Division of Math & English
- KIRKLAND, Kimberly, M.S.E.D. (Purdue University, 2003)
Vocational Credentials: Faculty
Faculty of Medical Office Technology, Division of Health & Science
- KITTELSON, Carol
Research Analyst, Institutional Effectiveness
- KLATASKA, Rickey, A.A. (Pikes Peak Community College, 1999)
Police Officer I, Public Safety
- KNIGHT, Dana
Administrative Assistant II, Division of Business, Public Service & Social Science
- KOBES, Stephanie, M.F.A. (University of Colorado, 2010)
Faculty of Dance, Division of Communications, Humanities & Technical Studies
- KOSKI, Christine
Early Childhood Educator I, Child Development Center
- KOSTER, Michele, A.A.S. (Pikes Peak Community College, 2005)
Vocational Credentials: Faculty
Faculty of Computer Aided Drafting-Mechanical, Division of Communications, Humanities & Technical Studies, Area Vocational Program
- KOTEWA, Laura, B.S. (Bemidji State University, 1988)
Administrative Assistant II, Career Planning & Advising
- KOVALY, Karen
Communications Coordinator, Marketing & Communications
- KREMS, Gregory, M.B.A. (Trident University, 2011)
Budget Analyst, Business Services
- KROUGH, Cynthia D.
Administrative Assistant III, Enrollment Services
- KRUGER, Cecilia, A.A.S. (Pikes Peak Community College, 2003)
Administrative Assistant III, Division of Math & English
- KRZEMIEN, Gayle, Ph.D. (Colorado State University, 2003)
Faculty of Mathematics, Division of Math & English
- KUBINA, Kristin
Vocational Credentials: Faculty
Faculty of Outdoor Leadership & Recreation Technology, Division of Health & Science
- KUEHN, Frank, M.A. (University of Kansas, 1975)
Vocational Credentials: Faculty
Faculty of Computer Information Systems, Division of Business, Public Service & Social Science
- KYNOR, James, M.S. (Boston University, 1986)
Associate Dean of Manufacturing, Workforce and CTE, Division of Communications, Humanities & Technical Studies
- LABATE, Fabrizio, M.S. (Colorado Technical University, 2013)
Vocational Credentials: Faculty
Assistant Director, Information Technology Support Services
- LABRECQUE, Catherine, M.S. (Regis University, 2009)
Vocational Credentials: Faculty
Coordinator, Law Enforcement Academy, Division of Business, Public Service & Social Science
- LACLAY, Emmett
Custodian I, Facilities & Operations
- LAGLE, Richard
Pipe/Mechanical Trades II, Facilities & Operations
- LAKKAKULA, Suman
Faculty of Chemistry, Division of Health & Science
- LAMAN, Alicia
Program Advisor, Career Planning & Advising
- LAMPHERE, Jessica, B.S. (Colorado State University, 2011)
Disability Specialist, OASIS/CAC, Office of Accommodative Services & Instructional Support
- LANGAN, Lynn, A.A.S. (Pikes Peak Community College, 1992)
Accounting Technician III, Financial Services
- LARISH, Ruth-Ann, M.A.T. (Colorado College, 2001)
Vocational Credentials: Faculty
Faculty of Natural Resources, Division of Health & Science
- LARROQUETTE, Linda S., A.G.S. (Pikes Peak Community College, 1995)
Program Assistant I, Child Development Center
- LAUER, Brenda
Vice President for Administrative Services
- LAWRENCE, Shanutel
Administrative Assistant II, Division of Math & English
- LAWSON, Cathryn, M.A. (University of Delaware, 1995)
Faculty of English, Division of Math & English
- LAWTON, David, M.S. (National Defense University, 1998)
Associate Professor of Mathematics, Division of Math & English
- LEATHES, Jennifer, M.B.A. (University of Phoenix, 2005)
Recruitment & Admissions Specialist, Enrollment Services
- LEDWITH, Katherine
Coordinator of Pathway Advising, Career Planning & Advising
- LEE, Vicki
Materials Handler II, Division of Communications, Humanities & Technical Studies
- LEGENDRE, Tyler
Administrative Assistant II, Testing Center
- LEHMAN, Carley, M.S. (University of Texas, 1982)
Vocational Credentials: Faculty
Faculty of Emergency Medical Services, Division of Health & Science
- LEMA, Melissa, M.S. (Northern Arizona University, 2001)
Vocational Credentials: Faculty
Associate Professor of Biology, Division of Health & Science
- LEWIS, Regina, M.A. (University of Colorado, 2001)
Professor of Communication, Division of Communications, Humanities & Technical Studies
- LEWIS-HARRIS, Yolanda, M.A. (University of Northern Colorado, 2003)
Counselor, Disabled Student Support Services
- LICHT, Deborah, Ph.D. (Harvard University, 2001)
Professor of Psychology, Division of Business, Public Service & Social Science
- LIKINS, Andrew R., M.A. (Azusa Pacific University, 2001)
Faculty of English & English as a Second Language, Division of Math & English

- LIONEL, Jonathan, B.A. (University of California at San Diego, 1992)
Supplemental Services Assistant, Area Vocational Program
- LONG, Stephanie, B.S. Colorado Technical University, 2013)
Assistant to the Dean, Division of Math & English
- LOPEZ, Felix
Vice President for Student Success
- LOPEZ, Leona, M.S. (University of Cincinnati, 2011)
Academic Advisor, Military & Veterans Programs
- LOWDEN, Brandon
Instructional Liaison, Career Planning & Advising
- LU, Jiangyan
Custodian I, Facilities & Operations
- LUCKENBAUGH, James
Structural Trades II, Facilities & Operations
- LUCKETT, Douglas
Administrative Assistant III, Enrollment Services
- LUMPKIN, Kellee
Administrative Assistant III, Enrollment Services/Records
- LUND, Bob, M.B.A. (Colorado Technical University, 2004)
Director, Facilities & Operations
- LYLE, Nanette, A.A.S. (Pikes Peak Community College, 1997)
Administrative Assistant III, Facilities & Operations
- LYONS, Geraldine
Accountant I, Financial Services/Cashiers – Accounts Receivable
- MACCOLL, Wendy, M.A. (University of Colorado, 1995)
Director of eLearning
- MACDONALD, Sondra, B.S. (Regis University, 2013)
Accounting Technician I, Financial Services
- MADSON, Michael, M.S. (Mississippi State University, 2000)
Associate Dean, Division of Health & Science
- MAHAN, Shawna, M.S. (University of Colorado, 1995)
Associate Professor of Mathematics, Division of Math & English
- MALONE, William, M.M. (New England Conservatory of Music, 1980)
Faculty of Music, Division of Communications, Humanities & Technical Studies
- MALUIA, Vaalele
Police Officer I, Public Safety
- MANNERING, Julie, M.S. (University of Phoenix, 1999)
Vocational Credentials: Faculty
Faculty of Computer Information Systems, Division of Business, Public Service & Social Science
- MANNERING, Scott, A.A.S. (Pikes Peak Community College, 1997)
Vocational Credentials: Faculty
Faculty of Welding, Division of Communications, Humanities & Technical Studies
- MANNING, Ann-Marie
Faculty of Social Work, Division of Business, Public Service & Social Science
- MANNINO, Ollie
Assistant Testing Coordinator, Testing Center
- MARTIN, Kendra, A.A.S. (Pikes Peak Community College, 1995)
Early Childhood Educator II, Child Development Center
- MARTIN, Paul, A.A.S. (Pikes Peak Community College, 2001)
IT Technician II, Information Technology Support Service
- MARTINEZ, Nancy
General Professional III, Facilities & Operations
- MARTINEZ, Nick
Custodian I, Facilities & Operations
- MARTINEZ, Raychelle
Administrative Assistant III, Enrollment Services & Records
- MARTINEZ, Tierra
Administrative Assistant II, Military & Veterans Programs
- MAST, Donna
Director of Financial Services/Controller, Financial Services
- MATHER, Ty, A.A.S. (Pikes Peak Community College, 2007)
Vocational Credentials: Faculty
Faculty of Fire Science, Division of Business, Public Service & Social Science
- MATTHEWMAN, Angela
DSSS Counselor, Disabled Student Support Services
- MATTHEWS, Adam, B.S. (Ithaca College, 1998)
Vocational Credentials: Faculty
Faculty of Radio & Television, Division of Communications, Humanities & Technical Studies, Area Vocational Program
- MARVE, Anita
Early Childhood Educator I, Child Development Center
- MAYLE, Kaitlin
Early Childhood Educator I, Child Development Center
- MAZZA, Tim, A.A. (Trinidad State Junior College, 1981)
Administrative Assistant II, Student Life
- MCADAMS, Rieko, M.A. (University of Colorado, 1997)
Faculty of Japanese, Division of Communications, Humanities & Technical Studies
- MCALPINE, Kenneth
Vocational Credentials: Faculty
Faculty of Criminal Justice, Area Vocational Program
- MCCLUGGAGE, Bruce M.A. (Fuller Theological Seminary, 2005)
Faculty of Philosophy, Division of Communications, Humanities & Technical Studies
- MCCULLOUGH, Michael, B.S. (Regis University, 2000)
Asset Management & Software Compliance Coordinator, Information Technology Support Services
- MCCULLOUGH, Thressa, B.A. (Colorado Technical University)
Police Officer I, Public Safety
- MCDADE, Timothy
General Labor I, Facilities and Operations
- MCDONNELL, Alicia
Administrative Assistant II, Testing Center
- MCHUGH, Evan, Ph.D. (Colorado State University, 2003)
Dean, Division of Health & Science
- MCKEAN, Ann, M.F.A. (Fort Hays State University, 1999)
Assistant Professor of Art, Division of Communications, Humanities & Technical Studies
- MCMULLEN, Robert W., Ph.D. (Utah State University, 1984)
Professor of Biology, Division of Health & Science
- MCPHERSON, Sharon, M.A. (California State University, 1994)
Assistant Professor of Mathematics, Division of Math & English
- MEADORS, Jennifer
Child Care Aide, Child Development Center
- MEDINA, Christopher, B.I.T. (American InterContinental University, 2005)
IT Technician II, Information Technology Support Services
- MEHLHOSE, Greg, B.S. (University of Missouri, 1999)
IT Professional III, Information Technology Support Services

- MEIKLEJOHN, Nancy, M.A. (University of Colorado, 2002)
Vocational Credentials: Faculty
Faculty of Computer Information Systems, Division of Business, Public Service & Social Science
- MERCADO, Rick
Vocational Credentials: Faculty
Faculty of Automotive Services, Division of Communications, Humanities & Technical Studies
- MERSON, Michael, M.S. (University of Colorado, 2010)
Vocational Credentials: Faculty
Faculty of Criminal Justice, Division of Business, Public Service & Social Science
- MESA, Maria, M.Ed. (Chaminade University, 2006)
Director of OASIS/CAC, OASIS
- MIELKE, Alyse
Accounting Technician II, Financial Services
- MILLER, Graydon, M.A.L. (University of Texas at Austin, 1996)
Head of Reference Services, Library
- MILLER, Julie, A.G.S. (Pikes Peak Community College, 1991)
Administrative Assistant III, Records
- MILLER, Sylva, M.S. (Utah State University, 2001)
Associate Professor of English, Division of Math & English
- MILLER-WILKES, Tammy, B.S. (Mercy College, 1994)
Early Childhood Educator I, Child Development Center
- MILLS, Ralph
Vocational Credentials: Faculty
Faculty of Automotive Collision Technology, Division of Communications, Humanities & Technical Studies
- MONDRAGON, Whisper
Early Childhood Educator I, Child Development Center
- MONTGOMERY, Anne, M.S. (University of Oklahoma, 1987)
Faculty of Biology, Division of Health & Science
- MOORE, Charles, M.A. (Air Command and Staff College, 2011)
Assistant to the Dean, Division of Business, Public Service & Social Science
- MOORE, Nichole
Vocational Credentials: Faculty
Faculty of Nursing, Division of Health & Science
- MORGAN, Lori E., M.S. (University of Colorado, 2010)
Vocational Credentials: Faculty
Allied Health Clinical Coordinator, Division of Health & Science
- MORRIS, Kenneth, M.P.A. (University of Colorado, 1989)
Vocational Credentials: Faculty
Faculty of Criminal Justice, Division of Business, Public Service & Social Science
- MOSS, Kristina, M.S. (Regis University, 2012)
Assistant Director of Financial Aid for Compliance & Fraud, Financial Aid
- MOTTON, Shelia, B.S.W. (Colorado State University, 2011)
General Professional II, Financial Aid
- MULLANE, Laura
Administrative Assistant III, Enrollment Services
- MULLINS, Ron
Custodian I, Facilities & Operations
- MUNICK, Warren, M.A. (Miami University, 1975)
Faculty of Economics, Division of Business, Public Service & Social Science
- MUNSELLE, Nova, M.A. (Adler School, 2014)
Program Advisor, Career Planning & Advising
- MURPHY, Dawn, M.S. (Texan Woman's University, 2000)
Vocational Credentials: Faculty
Faculty of Nursing, Division of Health & Science
- MYERS, Cindy, A.A. (Pikes Peak Community College, 2004)
Library Technician II, Library
- MYERS, Hettie
Assistant to the Dean, Division of Communications, Humanities & Technical Studies
- MYERS, James
Vocational Credentials: Faculty
Assistant Professor of Business, Division of Business, Public Service & Social Science
- NASH, Marc
Course Designer, Accessibility/Universal Design Specialist, eLearning
- NATALI, Dennis, Ph.D. (Colorado State University, 2014)
Vocational Credentials: Faculty
Professor of Business, Division of Business, Public Service & Social Science
- NEALE-DOWNING, Cynthia, M.A. (University of Denver, 2009)
Vocational Credentials: Faculty, Licensed Child Care Center
Director of Child Care Services
- NIFONG, Mary, M.S. (East Carolina University, 1992)
Vocational Credentials: Faculty
Nursing Program Director, Division of Health & Science
- NIKOLAI, Gloria, M.A. (University of Colorado, 1992)
Faculty of Sociology, Division of Business, Public Service & Social Science
- NYLANDER, Tor, B.A. (University of Colorado, 2010)
Accommodative Testing Specialist, Office of Accommodative Services & Instructional Support
- NYMAN, Randee, M.S.N. (Dominican University of California, 2003)
Vocational Credentials: Faculty
Faculty of Nursing, Division of Health & Science
- O'HARE-NACE, Janet, M.A.T. (American University, 2004)
Concurrent Enrollment Coordinator, High School Programs
- OHLE, Carolyn, M.A. (Webster University, 1990)
Vocational Credentials: Faculty
Associate Professor of Computer Science, Division of Business, Public Service & Social Science
- OLDS, Carole, M.L.S. (Emporia State University, 2004)
Director of Libraries
- OMDAHL, Deborah, B.S. (University of Southern Colorado, 1996)
Administrative Assistant III, Enrollment Services
- ORNDORFF, John A., Jr.
Police Officer II, Public Safety
- ORNDORFF, Laura
Program Assistant I, Dean of Students
- ORTIZ, Melissa
Early Childhood Educator I, Child Development Center
- ORTMEIER, Tessa
Administrative Assistant II, High School Programs
- OSWANDEL, David, B.A. (University of Hawaii, 1988)
Laboratory Coordinator I, Division of Health & Science
- OTTINGER, Andrea
Early Childhood Educator I, Child Development Center
- OURS-BUCK, Lorraine
Vocational Credentials: Faculty
Faculty of Nursing, Division of Health & Science
- PADEWAY, Patricia, B.S. (University of Phoenix, 2008)
General Professional II, Human Resource Services
- PAGE, William, M.A. (University of Phoenix, 2003)
Faculty of Mathematics, Division of Math & English

- PAGEL, T. Kate, Ph.D. (University of Colorado, 2009)
Professor of Humanities, Division of Communications,
Humanities & Technical Studies
- PAKENHAM, Katrina, B.S. (Colorado State University, 2010)
Early Childhood Educator I, Child Development Center
- PALARINO, Deborah, M.S. (University of Arkansas, 1990)
Vocational Credentials: Faculty
Assistant Professor of Early Childhood Education, Division of
Business, Public Service & Social Science
- PARADISO, Michael, A.A.S. (Pikes Peak Community College,
2012)
Vocational Credentials: Faculty
Faculty of Culinary Arts, Division of Business, Public Service &
Social Science
- PARCHA, Michael, M.A. (Eastern Michigan University, 1990)
Professor of Mathematics, Division of Math & English
- PARENT, Cyrille, M.A. (University of Paris VII, 1995)
Director of Information Technology Support Services
- PARKER, Carol, A.A.S. (Pikes Peak Community College, 2002)
Vocational Credentials: Faculty
Lab Coordinator I, Office of Accommodative Services &
Instructional Support
- PARRISH, Renee, A.A.S. (Pikes Peak Community College, 2000)
General Professional II, Information Technology Support
Service
- PATTERSON, Charles
Custodian I, Facilities & Operations
- PATTERSON, Donnette, M.Ed. (Hyles-Anderson, 1997)
Vocational Credentials: Faculty
Faculty of American Sign Language, Division of
Communications, Humanities & Technical Studies
- PAULEY, Stephanie, B.S. (University of Southern Colorado, 1997)
Laboratory Coordinator II, Division of Health & Science
- PETERSON, Michael
Vocational Credentials: Faculty
Police Officer I, Public Safety
- PETROSS, Jennifer
Administrative Assistant II, Enrollment Services/Records
- PHARRIS, Karey, B.S. (UTSA, 1994)
Advancing Academic Achievement Liaison, Division of Math &
English
- PIERCEALL HERMAN, Jennifer
Instructional Liaison, Career Planning & Advising
- PILUSO, Rodolfo
Custodian II, Facilities & Operations
- PIMENTEL, Miles
Assistant Director, Grants, Grants Office-Administrative
Services
- PIRIE, Tammy
Director of Grants, Administrative Services
- POMPHREY, Michael
Disability Specialist, OASIS/CAC
- PRITCHETT-HILLARD, Nichole
Project Director for Disabled Student Services, Disabled
Student Support Services
- PURTSCHER, Daniel, M.S. (University Marycrest College, 1985)
Faculty of Reading, Division of Math & English
- QUESADA, Edmond D., M.A. (University of Colorado, 1986)
Project Director of Student Support Services
- RADTKE, Mark
Faculty of Emergency Medical Service, Division of Health &
Science
- RAGLAND, Jason
Police Officer I, Public Safety
- RAINS, Linda, Ph.D. (University of North Dakota, 2009)
Champ Grant Navigator, Division of Communications,
Humanities & Technical Studies
- RAMALLO, Martha
Faculty of Spanish, Division of Communications, Humanities
& Technical Studies
- RAU, Karen
Administrative Assistant III, Enrollment Services
- RAYBORN, Richard, M.S. (Columbia Pacific University, 1992)
SOC Evaluator, Military Programs
- REED, Amy, B.S. (Colorado State University, 1983)
Vocational Credentials: Faculty
Faculty of Dental Assisting, Division of Health & Science
- RIDDLE, Ken, M.S. (Colorado Technical University, 2000)
Vocational Credentials: Faculty
Faculty of Computer Science, Division of Business, Public
Service & Social Science
- RIFE, Laura
Administrative Assistant II, Enrollment Services
- RIFE, Lindsey
Administrative Assistant III, Learning Assistance Center
- RIFFEE, Carrie
Administrative Assistant III, TRiO Student Support Services
- RIOS, Maricela
Custodian I, Facilities & Operations
- RITTER, Crystal, A.A. (Pikes Peak Community College, 2007)
Administrative Assistant II, Division of Health & Science
- RIZZI, Paula, M.B.A. (Colorado Technical University, 2009)
Default/Debt Management Advisor, Financial Aid
- ROBERTS, Gary
Sales Assistant I, Bookstore
- ROBERTSON, Donald
Structural Trades II, Facilities & Operations
- ROBINSON, Carol
Administrative Assistant II, Division of Health & Science
- ROBINSON, Constance, B.S., B. A. (Regis University, 2004)
Vocational Credentials: Faculty
Program Assistant I, Assistant to the Vice President for
Instructional Services
- ROBINSON, Leonard (Dwayne)
Vocational Credentials: Faculty
Faculty of Auto Collision Repair, Division of Communications,
Humanities & Technical Studies, Area Vocational Program
- ROCCO, Jim, A.A.S. (Pikes Peak Community College, 1986)
Police Officer I, Public Safety
- ROCHA, Dana
Academic Advisor, Military & Veterans Programs
- RODARTE, Jennifer, B.A. (Regis University, 2012)
Early Childhood Educator I, Child Development Center
- RODRIGUEZ, Christopher
Electrical Trades II, Facilities & Operations
- ROHLFING, Glenn
Faculty of History, Division of Communications, Humanities &
Technical Studies
- ROLLINS, Diane
Program Assistant II, Office of the Vice President for
Instructional Services
- ROOT, Sandra
Administrative Assistant III, Enrollment Services

ROSE, Priscilla
Civil Rights/Human Resource Services Investigator, Human Resource Services

ROTH, Douglas, M.S. (University of Texas, 1996)
Faculty of Mathematics, Division of Math & English

ROTHLEUTNER, Marissa
Early Childhood Educator I, Child Development Center

ROTKOWSKI, Sandra
Accounting Technician I, Financial Services

ROUTH, Lisa, Ph.D. (California Coast University, 2006)
Faculty of Psychology, Division of Business, Public Service & Social Science

ROWAN, Kristin, Ph.D. (Oklahoma State University, 1996)
Faculty of Chemistry, Division of Health & Science

RUSSO, Marilyn, M.S.N. (Walden University, 2008)
Vocational Credentials: Faculty
Faculty of Nursing, Division of Health & Science

SAGEN, Debbie
Vice President of Workforce Development

SALAS, Ronald
Police Officer I, Public Safety

SALYERS, Carol, B.S. (Colorado State University, 1981)
General Professional II, Career Planning & Advising

SANDMORE, Chris, A.A. (Pikes Peak Community College, 2008)
Administrative Assistant II, Division of Communications, Humanities & Technical Studies

SANDOVAL, Virginia
Administrative Assistant II, Facilities & Operations

SANGWIN, Allen, B.S. (Kansas State University, 1999)
Vocational Credentials: Faculty
Operations Maintenance Manager, Facilities & Operations

SCHMIDT, Nick
Sales Manager II, Bookstore

SCHLARBAUM, Konrad
Sustainability Coordinator, Student Life

SCHNEIDER, Christine, A.A.S. (Pikes Peak Community College, 1994)
Program Assistant I, Office of the Vice President for Instructional Services

SCHOFIELD, Robin, M.A. (Arizona State University, 1994)
Faculty of English, Division of Math & English

SCHOOLCRAFT, Deidre, M.A. (University of Northern Colorado, 1992)
Professor of English, Division of Math & English

SCHWARTZ, Lisa
Coordinator of Program Advising, Career Planning & Advising

SCOBEE, Roland
Pipe/Mechanical Trades III, Facilities & Operations

SCOTT, Andrew
Coordinator, Learning Assistance Center

SEDILLO, Julianne
Intervention/Advising Specialist, Retention Services

SELIGOVA, Ivana
Faculty of Mathematics, Division of Math & English

SELLS, Norma Jean
Default/Debt Management Advisor, Financial Aid

SEMMENS, Jill
Concurrent Enrollment Coordinator, High School Programs

SENGENBERGER, Jennifer, B.A. (Colorado State University, 1982)
Dean of Students

SHARP, Amie, M.A. (University of South Florida, 2004)
Assistant Professor of English & Literature, Division of Math & English

SHAW, Daniel, Ph.D. (Northwestern University, 1987)
Faculty of Philosophy, Division of Communications, Humanities & Technical Studies

SHEARN, Jenna, B.A. (Cornell College, 1989)
Vocational Credentials: Faculty
Professor of Multimedia Graphic Design, Division of Communications, Humanities & Technical Studies

SHIELDS, Ron, M.A. (University of Northern Colorado, 1997)
Program Manager, Military & Veterans Programs

SHIPLEY, J. Renee, B.A. (Oklahoma State University)
Accounting Technician III, Financial Services

SHROPSHIRE, Kyle
IT Systems Analyst, Information Technology Support Services

SHULTS, Tamela
Vocational Credentials: Faculty
Faculty of Nursing, Division of Health & Science

SIMPSON, Michael A., M.S. (University of Colorado, 1988)
Vocational Credentials: Faculty
Faculty of Computer Science, Division of Business, Public Service & Social Science

SMALL, Lindsey, M.S. (University of Colorado, 2010)
Faculty of Mathematics, Division of Math & English

SMART, Lance
General Labor I, Facilities & Operations

SMITH, Besheivah, B.S. (University of Southern Colorado, 2002)
Administrative Assistant II, Public Safety

SMITH, Claudia
Arts Professional I, Publications & Printing

SMITH, Joann
General Professional II, Enrollment Services

SMITH, Megan
Coordinator of New Student Orientation, Retention Services

SNYDER, Bernard
Custodian I, Facilities & Operations

SNYDER, Stephanie, B.A. (Western State College of Colorado, 2009)
Assistant Registrar, Enrollment Services/Records

SOLANO, Anna, M.A. (University of Colorado, 2002)
Pathway Advisor, Career Planning & Advising

SOLOMON, Mandy, M.A. (Eastern Illinois University, 2003)
Assistant Professor of English, Division of Math & English

SOUTHCOTT, Joseph
Associate Dean, Division of Math & English

SOUZA, Dawn, M.A. (University of Colorado, 2010)
Vocational Credentials: Faculty
Director of Student Life, Student Life

SPENCER, Carrie, M.A. (University of Colorado, 2001)
Assistant Professor of History, Division of Communications, Humanities & Technical Studies

SPRAGUE, Myra, M.A. (University of Colorado, 2002)
Vocational Credentials: Faculty
Coordinator of the Child Care Center, Rampart Range Campus

STADELBAUER, Jamie
Administrative Assistant II, Testing Center

STEPHENSON, Eric, M.A. (University of Colorado, 1996)
Associate Professor of English, Division of Math & English

STEWART, Shirley, B.A. (University of Colorado, 1983)
Faculty of Mathematics, Division of Math & English

- STOCKLEY, Katrina
Administrative Assistant II, Testing Center
- STOCKTON, Kelly, B.A. (University of Northern Colorado, 2006)
Recruitment & Admissions Specialist, Enrollment Services
- STOCKWELL, Patricia
Library Technician III, Library
- STRATTON, Pamela, A.A.S. (Pueblo Community College, 1994)
Administrative Assistant III, Enrollment Services
- STREBEL, Chera
Accounting Technician III, Financial Services
- STURDEVANT, Katherine, M.A. (San Francisco State University, 1981)
Professor of History, Division of Communications, Humanities & Technical Studies
- SUE, Nadia, A.A.S. (Pikes Peak Community College, 1990)
Administrative Assistant II, Division of Math & English
- SULLIVAN, Mary, A.A. (University of Alaska, 1993)
Vocational Credentials: Faculty
Assistant Professor of Early Childhood Education, Division of Business, Public Service & Social Science
- SUMMERSON, Karen, M.A. (Bowling Green State University, 1986)
Assistant Professor of Mathematics, Division of Math & English
- SURFACE, Eric
Equipment Mechanic III, Facilities & Operations
- SUSTARSIC, March, B.A. (Ohio University, 1998)
Faculty of Spanish, Division of Communications, Humanities & Technical Studies
- SVEC, Scott
Intervention/Advising Specialist, Retention Services
- SWANN, Katy
Technician III, Military & Veterans Programs
- SWANSON, Gina, M.A. (University of Wyoming, 1998)
Faculty of Sociology, Division of Business, Public Service & Social Science
- SWARTWOOD, Ronald
Director, Financial Aid
- SWARTZ, Jennifer, Ph.D. (University of Virginia, 2008)
Faculty of Biology, Division of Health & Science
- SWARTZ, Nancy, M.A. (Ball State University, 1973)
Faculty of Mathematics, Division of Math & English
- TAGGART, Jacqueline, Ph.D. (Union Institute and University, 2000)
Vocational Credentials: Faculty
Professor of Business, Division of Business, Public Service & Social Science
- TAMBLYN, Jeffrey D., A.G.S. (Pikes Peak Community College, 1995)
Sales Manager I, Bookstore
- TAYLOR, Alescia
Accounting Technician I, Financial Services
- TAYLOR, Alice
Custodian III, Facilities & Operations
- TAYLOR, Kina, B.S.W. (Colorado State University, 2004)
General Professional II, Enrollment Services/Financial Aid
- TEIXEIRA, Alberto
Administrative Assistant II, Division of Health & Science
- THEARD, Cynthia, A.G.S. (Pikes Peak Community College, 2005)
General Professional II, Financial Aid
- THIRION, Rodney, M.S. (University of Colorado, 2001)
Vocational Credentials: Faculty
Faculty of Business, Division of Business, Public Service & Social Science
- THOMPSON, Anna
Pathway Advisor, Career Planning & Advising
- THOMPSON, Linda
Faculty of Mathematics, Division of Math & English
- THOMPSON, Tori
Program Advisor, Career Planning & Advising
- THRELFALL, Albert L., M.S. (University of Alabama, 1991)
Professor of Biology, Division of Health & Science
- TIERNEY, Geri, B.S.N. (Regis University, 1997)
Vocational Credentials: Faculty
Assistant Professor Nursing, Division of Health & Science
- TIMCO, Lance, M.A. (University of Texas, 2005)
Faculty of Art, Division of Communications, Humanities & Technical Studies
- TOLLIVER, Gary
Pipe/Mechanical Trades II, Facilities & Operations
- TOMRDLE, Jacqueline, M.B.A. (Regis University, 2013)
Faculty Multimedia Consultant, eLearning
- TONER, Cici, A.A.S. (Pikes Peak Community College, 2008)
General Professional II, Financial Aid
- TONER, Courtney
Child Care Aide, Child Development Center
- TOURJEE, Charlie, A.A.S. (Pikes Peak Community College, 2004)
Administrative Assistant I, Enrollment Services
- TRUJILLO, Esther
Administrative Assistant III, Enrollment Services/Records
- TRUMBULL, Michael, Ph.D. (The Union Institute Graduate School, 1993)
Faculty of Psychology, Division of Business, Public Service & Social Science
- TRUSSELL, Richard, M.Div. (Pacific Lutheran Theological Seminary, 1982)
Faculty of Philosophy, Division of Communications, Humanities & Technical Studies
- TUNSON, Sharon, M.A. (University of Phoenix, 1986)
Assistant Director, Area Vocational Program
- ULRICH, Andrea
Faculty of Health & Wellness, Division of Health & Science
- VIGIL, Alfred
Administrative Assistant II, Facilities & Operations
- VIGIL, Gary
Grounds & Nursery III, Facilities & Operations
- VOLLEBERG, Edward
Vocational Credentials: Faculty
Structural Trades III, Facilities & Operations
- VON FANG, Leah
Vocational Credentials: Faculty
Art & Graphic Design Coordinator, Marketing & Communications
- VONSPRECKEN, Ricky
Custodian I, Facilities & Operations
- WADMAN, Nathan, B.S. (Colorado State University, 1996)
Vocational Credentials: Faculty
LMS Administrator, eLearning
- WAGER, Bethany
State Services Professional Trainee II, Financial Aid

WAGNER, Karen, Ph.D. (University of Toronto, 1995)
Professor of History, Division of Communications, Humanities & Technical Studies

WAIT, Pamella, B.S.N. (University of Colorado, 2004)
Vocational Credentials: Faculty
Faculty of Health Sciences, Area Vocational Program

WALKER, Emily
Early Childhood Educator I, Child Development Center

WALKER, James
Faculty of English, Division of Math & English

WALKER, Karl
Network Analyst, Information Technology Support Services

WALTER, Wes, M.B.A. (Grand Canyon University, 2007)
Police Officer III, Public Safety

WALTERS, David, A.A.S. (Pikes Peak Community College, 1996)
Vocational Credentials: Faculty
Faculty of Computer Networking, Division of Business, Public Service & Social Science

WEAVER, Scott
Faculty of English, Division of Math & English

WEBER, Rebecca
Administrative Assistant II, Records

WEIXELMAN, Susan, M.A. (University of Colorado, 1975)
Vocational Credentials: Faculty
Faculty of Early Childhood Education, Area Vocational Program

WESTMOLAND, Melissa, A.A. (Pikes Peak Community College, 2007)
Administrative Assistant III, Division of Communications, Humanities & Technical Studies

WHEELER, Brian
Vocational Credentials: Faculty
Faculty of Multimedia Graphic Design and Radio & Television, Division of Communications, Humanities & Technical Studies

WHITEMAN, Sylvia, A.A.S. (Pikes Peak Community College, 1993)
Program Assistant I, Assistant to the Vice President for Instructional Services

WHITTED, Sarah
Vocational Credentials: Faculty
Faculty of Interior Design, Division of Communications, Humanities & Technical Studies

WHITTEN, Kim, A.A. (Laramie County Community College, 2000)
Vocational Credentials: Faculty
Faculty of Emergency Medical Services, Division of Health & Science

WHITEMORE, Marifel
Custodian I, Facilities & Operations

WILEY, Gwen, M.A. (Pennsylvania State University, 1979)
Professor of Mathematics, Division of Math & English

WILLIS, Debra
Office Manager I, Student Life

WILLIS, Robert
Client Services Manager, Information Technology Support Services

WILSON, Sally Ann, M.Mus. (Julliard School, 1981)
Faculty of Music, Division of Communications, Humanities & Technical Studies

WITT-AGNEW, Sheila
Program Assistant I, eLearning

WITTREY, Sharon, M.B.A. (University of Colorado, 1989)
Vocational Credentials: Faculty
Faculty of Business Management, Division of Business, Public Service & Social Science

WULF, Gina, A.A. (Pikes Peak Community College, 1999)
Early Childhood Educator I, Child Development Center

WULF, Lincoln, B.A. (Wichita State University, 1993)
Director of Career Planning & Advising

WYNN, Andrew
General Labor I, Facilities & Operations

YEAKLEY, Jay, M.A. (Midwestern State University, 2000)
Faculty of English, Division of Math & English

YENTER, Michelle, B.A. (University of Colorado, 2013)
Program Advisor, Career Planning & Advising

ZIMBLEMAN, Dana, M.A. (Auburn University, 1991)
Faculty of English, Division of Math & English

ZINCONE, Joyce, B.S. (Wayland Baptist University, 1997)
Career Pathways Coordinator, Workforce Development

ZUREK, Doug
Vocational Credentials: Faculty
Police Officer I, Public Safety

State Board for Community Colleges & Occupational Education

Rich Martinez, Jr., 6th District, Chair
Dr. Russ Meyer, 4th District, Vice Chair
Bernadette Marquez, At Large
Theresa Peña, At Large
Ken Weil, 1st District
Maury Dobbie, 2nd District
Jean White, 3rd District
Jim Johnson, 5th District
Dr. John Trefny, 7th District

Non-Voting Board Members

Robert Henderson, SFAC Representative
Ed Miller, SSAC Representative

Colorado Community College System

Nancy McCallin, Ph. D.

Pikes Peak Community College Advisory Council

Fletcher Howard, Chair
Bob Baker
Ric Denton
Terrance McWilliams
Becky Medved
Janet Suthers
Brandy Williams

Pikes Peak Community College Catalog Team

Curriculum	Christine Schneider
Publication Coordination	Lorelle Davies, Alison Cortez

CAMPUS DIRECTORY

	Centennial Campus Room • Phone:	Downtown Studio Campus Room • Phone:	Rampart Range Campus Room • Phone:
Administrative Services, Vice President	A-324 • 502-2403		S-202 • 502-2100
Admissions	A-107 • 502-3000	S-100 • 502-3000	S-102 • 502-3000
Area Vocational Program (AVP)	A-220 • 502-3111		
Art Gallery		S-109 • 502-4040	
Articulation, High School	A-220 • 502-3111		
Assessment	A-201a • 502-4045		
Bookstore	C-102 • 502-2665	S-104 • 502-2663	N-101 • 502-2664
Business, Public Service & Social Science Division	F-300 • 502-3300		W-209 • 502-3300
Campus Activities	A-210 • 502-2500	N-106 • 502-2091	S-207 • 502-2091
Campus Center Meeting Rooms	A-210 • 502-2089		
Campus Life Information Desk	A-210 • 502-2522	N-106 • 502-2538	S-207 • 502-2577
Campus Life Main Line	A-210 • 502-2500		
Campus Rentals	C-207 • 502-2333		
Career Planning & Advising Center	A-119 • 502-3232	S-102 • 502-3232	S-101 • 502-3232
Cashier	A-101 • 502-2444	S-100 • 502-2444	S-102 • 502-2444
Child Development Centers	CDC • 502-2323		CDC • 502-2424
Communications, Humanities & Technical Studies Division	F-300 • 502-3200	S-210 • 502-3200	W-119 • 502-3200
Computer Access Center (OASIS)	A-309 • 502-3030	S-126 •	
Computer Labs	A-300 • 502-2442	N-106a • 502-2443	E-203 • 502-2408
Copy Center	C-101 • 502-2111		
Credit for Prior Learning	A-106 • 502-2302		
Dean of Students	A-106 • 502-2367		
Disability Services, Student (OASIS)	A-111 • 502-3333	S-126 • 502-3333	S-101 • 502-3333
eLearning	A-209 • 502-3555		
E-news Newsletter@ppcc.edu	A-324 • 502-2022		
English Language Institute	F-200 • 502-3535		
Enrollment Services, Vice President	A-324 • 502-3563		
Enrollment Services (Velocity Center)	A-107 • 502-3000	S-100 • 502-3000	S-102 • 502-3000
Financial Aid	A-106 • 502-3000	S-100 • 502-3000	S-102 • 502-3000
Financial Services	A-101 • 502-2300		
First Aid/Medical Assistance	A-100 • 502-2911	S-101 • 502-2911	N-104 • 502-2911
Fitness Center/Gymnasium	A-262 • 502-2555		
Food Services	A-211 • 502-2038		W-103 • 502-2042
Foundation, Resource & Community Development	A-324 • 502-2013		
Health & Science Division	F-300 • 502-3400		W-209 • 502-3400
High School Articulation	A-220 • 502-3111		
Human Resource Services	B-200 • 502-2600		
Information Technology Support Services (ITSS)	B-201 • 502-2438	N-105 • 502-2438	E-206 • 502-2438
Computer Labs	A-300 • 502-2442	N-106 • 502-2443	E-203 • 502-2408
Service Desk	A-111 • 502-4800	• 502-4800	• 502-4800
Instructional Services, Vice President	A-324 • 502-3100		S-202 • 502-3480
Interpreting Services (Sign Language)	A-115 • 502-3026		
KEPC Radio	A-153 • 502-3166		
Learning Assistance Center (Tutoring)	A-212 • 502-3444	S-126 • 502-3444	S-201 • 502-3444
Library	A-201 • 502-2400		N-201 • 502-2440
Marketing & Communication	A-324 • 502-2082		

Math Centers	A-316 • 502-3250	S-212 • 502-3270	N-204 • 502-3260
Math & English Division	F-200 • 502-3600		W-119 • 502-3600
Meadow, The	A-211 • 502-4555		
Military & Veterans Programs	C-222 • 502-4100		
Office of Accommodative Services & Instructional Support (OASIS)	A-115 • 502-3333	S-126 • 502-3333	S-101 • 502-3333
Ombudsman	A-324 • 502-2012		
Pikes Peak Regional Law Enforcement Academy	F-300 • 502-3132		
Post-Secondary Enrollment Options (PSEO)/Concurrent Enrollment	A-220 • 502-3111		
President's Office	A-324 • 502-2200		S-202 • 502-2200
Public Safety Administration	A-100 • 502-2900	S-101 • 502-2900	N-106 • 502-2900
Public Safety Emergency Line	A-100 • 502-2911	S-101 • 502-2911	N-106 • 502-2911
Publications & Printing	C-101 • 502-2111		
Reading Center	A-311 • 502-3510		
Records	A-106 • 502-3000	S-100 • 502-3000	S-102 • 502-3000
Recreation & Sports	A-262 • 502-2555		
Recruitment	A-106 • 502-2018	S-122b • 502-2088	S-102 • 502-2667
SkillsUSA	A-220 • 502-3111		
Southern Colorado Educational Opportunity Center (SCEOC)	A-106 • 502-3028		
Student Counseling & Resource Center	C-201 • 502-4782	S-126 • 502-4689	S-207b • 502-4689
Student Government	A-204 • 502-2104	N-106 • 502-2103	S-207 • 502-2098
Student Support Services/TRiO	A-117 • 502-3222		
Student Success, Vice President	A-324 • 502-2541		
Television Station-ITFS (WLX-245)	A-209 • 502-3555		
Testing Center	A-117 • 502-3370	S-102 • 502-3390	S-101 • 502-3380
Transfer from PPCC		S-218 • 502-3237 S-122 • 502-3002	
Veteran's Affairs	C-222 • 502-2060		
Veteran's Upward Bound	C-222 • 502-4545		
Women's Forum	A-201 • 502-4044		
Writing Centers	A-312 • 502-3510	S-212 • 502-3530	N-202 • 502-3520

INDEX

A

AAS Requirements	80
About this Catalog	3
Academic Concerns	16
Academic Fresh Start	15
Academic Honesty	23
Academic Progress Standing	15
Academic Standards	13
Accounting	82
Accounting Courses	122
Activities	35
Activities and Events	37
Administrative Services Staff	219
Advancing Academic Achievement	38
Advancing Academic Achievement Courses	123
Agriculture Crops & Soils Course	123
AIDS Policy	24
All About PCC	5
Allied Health	83
American Culture Studies	46
American Opportunity Credit	11
American Sign Language Courses	123
Anthropology	46
Anthropology Courses	124
Application for Certificate or Degree	16
Approved Elective Course List for AA Degrees and Course of Study	43
Approved Elective Course List for AS Degrees	70
Arabic Courses	125
Architectural Engineer / Construction Management	83
Architectural Engineer/Construction Management Courses	125
Area Vocational Program	41
Art Courses	126
Art History	47
Art/Fine Art Photography	48
Articulation Agreements	41
Assessment for Student Success	17
Associate of Applied Science Degree (AAS) and Certificates of Achievement	80
Associate of Applied Sciences Degree Programs and Certificates	82
Associate of Arts (AA)	42
Associate of Arts Degrees and Courses of Study	46
Associate of General Studies Degree (AGS)	78
Associate of Science Courses of Study	71
Associate of Science Degree (AS)	70
Astronomy Courses	130
Athletics	35
Auto Motorsports Technology Courses	130
Automotive Collision Technology	84
Automotive Collision Technology Courses	131
Automotive Service Technology Courses	133
Automotive Technology	85

B

Basic Skills Assessment Matrix	9
Biology	71
Biology Courses	134
Books	11
Business & Technology Education Courses	138
Business Administration	87
Business Courses	139
Business Transfer	49

C

Campus Center	35
Campus Crime and Security Report	27
Campus Directory	234
Campus Maps	2
Career and Technical Education Programs	5
Career Planning and Advising Center	29
Career Planning and Advising Centers	7
CCOnline (Sections C11, C21)	40
Certificates of Achievement Requirements	80
Change of Major/Program	13
Chemistry	72
Chemistry Courses	137
Child Development Centers	29
Chinese Courses	137
Class Schedule	7
Classroom Attendance Procedure	23
College Administrative Staff	219
College Calendar	6
College Composition & Reading Courses	137
College Opportunity Fund (COF)	10
College Preparatory Programs	38
Colorado Community College System	233
Come See Us	6
Communication	49
Communication Courses	138
Community Education, Customized Training and Workforce Development	37
Computer & Networking Technology Courses	138
Computer Aided Drafting and Design - Mechanical	89
Computer Aided Drafting Courses	139
Computer Information Systems	90
Computer Information Systems Courses	140
Computer Labs	31
Computer Networking Technology	91
Computer Science	72
Computer Science Courses	142
Computer Web-Based Courses	143
Concurrent Enrollment	7, 41
Conduct in College Buildings	23
Copy Center	329
Course Descriptions	122
Course Numbering System	122
Credit by Examination	13
Credit for Prior Learning (CPL)	40
Criminal Justice	50, 93
Criminal Justice Courses	144
Culinary Arts	93
Culinary Arts Courses	145

D

Dance	51
Dance Courses	147
Days of Enforcement	26
Deaf Prep Courses	148
Degree & Program Requirements	42
Degree and Certificate Criteria	38
Degree Eligibility	38
Dental Assisting	96
Dental Assisting Courses	151
Department of Public Safety	29
Developmental Courses	122
Diesel Power Mechanics Courses	152

Diesel Technology	97
Dietetic Technology Courses	154
Disability Services, Student (OASIS).....	30
Driving Courses	154
Drop for Non-Payment	10
Drugs and Alcohol	24
E	
Early Childhood Education.....	97
Early Childhood Education Courses	155
Early Childhood Education Teacher Preparation.....	52
Earned Income Tax Credit/Child Tax Credit.....	12
Economics	52
Economics Courses.....	157
Education Courses	157
Educational Programs.....	38
Electronics Courses	158
Electronics Technology	98
Elementary Education [Teacher] Preparation.....	53
Emergencies and Crime Reporting	26
Emergency Management & Planning Courses	159
Emergency Medical Service Courses	160
Emergency Medical Services.....	100
Emergency Notifications	26
Employment Opportunities	12
Energy Management Technology	100
Energy Technology Courses.....	161
Engineering Courses.....	162
Engineering Graphics Technology Courses.....	162
English (Literature Emphasis)	53
English as a Second Language Courses	163
English as a Second Language Preparatory Program	39
English Courses.....	162
English Preparatory Program.....	39
Enrollment Services Staff	219
Environmental Science Courses.....	164
Environmental Studies.....	54
Ethnic Studies Course.....	164
F	
Faculty & Staff.....	221
Farrier Science	101
Farrier Science Courses.....	164
Finance Courses.....	165
Financial Aid.....	11
Fire Science Technology	101
Fire Science Technology Courses.....	165
Fire Science Wildland	102
Fire Science Wildland Courses.....	167
Firearms on Campus.....	25
Fitness Center	35
Foreign Language	55
Foreign Languages Courses	169
Foundation Scholarships	12
French.....	56
French Courses	169
G	
General Education Electives for AAS Degrees and Certificates	80
Geographic Information Systems	102
Geographic Information Systems Courses	169
Geography	57
Geography Courses.....	170
Geology.....	73
Geology Courses	170
German Courses	171
Getting Started.....	7
Grade Changes.....	15
Grading Options.....	14
Grading System	13
Graduation Ceremony	16
Graduation Honors	16
Grants	12
H	
Health and Wellness Courses.....	171
Health Professional Courses.....	172
Heating, Air Conditioning and Refrigeration Technology	103
Heating, Air Conditioning and Refrigeration Technology Courses.....	173
High School Student Records	41
History	58
History Courses.....	174
History of the College	5
Holistic Health Professional Courses	176
Homeland Security Emergency Management.....	104
Hospitality Courses.....	176
How to Calculate Your GPA	15
Humanities.....	59
Humanities Courses	177
I	
ID Cards	35
Independent Study	122
Independent Study Courses.....	40
Information Technology Support Services	30
Instructional Services Staff.....	219
Interior Design	104
Interior Design Courses.....	177
International (F1) Students.....	7
Interpreter Prep Program Courses.....	179
Italian Courses.....	180
J	
Japanese Courses	180
Journalism.....	59
Journalism Courses	180
K	
KEPC Radio - 89.7 FM.....	37
L	
Law Enforcement Courses	181
Learning Assistance Centers	31
Library	31
Literature	60
Literature Courses.....	182
Loans.....	12
Locations and Facilities.....	5
M	
Machining	105
Machining Courses.....	183
Management Courses	184
Manufacturing Technology Course	185
Marketing Courses	185
Math Centers	31
Math Courses	186
Mathematics.....	74
Mathematics Preparatory Program	39
Maximum Course Load	13
Mediation Courses	188
Medical Office Technology	105
Medical Office Technology Courses.....	188
Meteorology Course	189
Military & Veterans Programs	33
Military and Veterans Programs	40

Mission Statement	5
Multimedia Graphic Design.....	106
Multimedia Graphic Design Courses	189
Music.....	61
Music Courses	192

N

Natural Resources Courses	194
New Student Orientation (NSO)	31
New Students.....	7
Non-Voting Board Members.....	223
Nursing.....	109
Nursing Courses	194
Nursing Assistant Courses	195

O

Occupational Safety Technician Course.....	196
Off Campus Courses.....	122
Officers of the College	219
Ombudsman	32
Online Learning/eLearning Options.....	39
Open-Entry/Open-Exit Courses	40
Options for Current High School Students	41
Other Programs and Courses of Study	121
Outdoor Leadership & Recreation Technology.....	110
Outdoor Studies Courses	196

P

Paralegal Courses.....	199
Paralegal/Legal Assistant	112
Para-Professional Education.....	121
Parking and Traffic Regulations.....	25
Pharmacy Technician	113
Pharmacy Technician Courses.....	200
Philosophy.....	62
Philosophy Courses	201
Photography Courses	202
Physical Education Courses	204
Physics	74
Physics Courses.....	205
Pikes Peak Community College	1
Pikes Peak Community College Advisory Council	223
Pikes Peak Community College Catalog Team.....	223
Pikes Peak Regional Law Enforcement Academy.....	113
Placement Testing.....	8
Planning for a Bachelor's Degree/Transfer Programs.....	5
Political Science.....	63
Political Science Courses	205
PPCC Hybrid Classes (Sections 1H1,2H1,3H1, etc.)	40
PPCC Online Campus (Sections 1N1, 2N1, 3N1, etc.)	40
Pre-Allied Health	75
Pre-Engineering.....	121
Pre-Med Professions	76
President's Staff	219
Professional Photography	114
Professional Writing & Communication.....	63
Programs.....	12
Proof of Lawful Presence	11
Psychology.....	64, 77
Psychology Courses.....	206
Public Security Management Courses.....	207
Purpose and Goals	38

R

Radio & Television.....	115
Radio & Television Courses.....	207
Radiologic Technology Courses	208

Radiology University of Colorado Health/Memorial Health System School of Radiologic Technology / PPCC Collaborative Program	116
Readmit Students	7
Records.....	32
Recreation Courses.....	209
Recreation/Sports Clubs	35
Refunds/Adjustments.....	11
Registration	8
Repeated Courses.....	15
Report of Criminal Offenses	27
Reporting Criminal Offenses	27
Required Disclosures.....	5
Residency Classification Appeals.....	11
Restricted Attendance	24
Retention Services.....	32
Rioting Offenses.....	27
Russian Courses	209

S

Science Courses.....	209
Secondary Education Teacher Preparation	121
Selected Topics	122
Service Learning Program	40
Services for Students.....	29
Services for the Community	37
Sex Offender Registration.....	27
Sexual Harassment.....	24
Sign Language Interpreter Preparation	116
Smoking on College Grounds	25
Social Services Technician	117
Social Work Courses	210
Social Work Transfer.....	65
Sociology.....	66
Sociology Courses	210
Southern Colorado Educational Opportunity Center (SCEOC)	32
Spanish.....	67
Spanish Courses	211
State Board for Community Colleges & Occupational Education	233
State-Guaranteed Curriculum	122
Student Activity Fees	10
Student Clubs and Organizations.....	35
Student Code of Conduct.....	18
Student Conduct	18
Student Counseling and Resource Center.....	32
Student Disciplinary Procedure.....	19
Student Government.....	35
Student Grievance Procedure	22
Student Life	35
Student Success Staff	220
Studio Art.....	68
Sustainability.....	36

T

Term Academic Honors.....	16
Testing Center	33
The Downtown Studio Gallery.....	37
Theatre	69
Theatre Courses.....	212
Transfer Students to PPCC	7
Transfer to PPCC	13
Translation & Tourism Courses	214
TRiO-Disabled Student Support Services.....	33
TRiO-Student Support Services	33
Tuition.....	10
Tuition and Fees.....	10
Tuition and Fees (2014-15)*	10

U

Use of College Facilities 6

V

Veterans Upward Bound34

Vision Statement..... 5

Visitation Program (Four-year Colleges & Universities)34

W

Water Quality Management..... 118

Water Quality Management Courses 214

Weekend College40

Welding..... 119

Welding Courses 215

Women's Studies Courses 216

Work Experience Courses..... 122

Writing Centers.....34

Z

Zoo Keeping Courses..... 217

Zoo Keeping Technology..... 120

STUDENTS SUCCEED AT PPCC.

PPCC.EDU

5675 S. Academy Blvd.
Colorado Springs, CO 80906 USA

800.456.6847 | 719.502.2000 / TTY