

Table of Contents

Governance & Accreditation	3
Welcome	5
Campus Locations.....	6
Academic Calendar.....	8
About PCC.....	19
Getting Started at PCC.....	28
Applying for Admission	32
Transferring Credits.....	41
Financial Aid	46
Tuition and Fees	50
Basic Skills Assessment.....	53
Advising & Registration	58
Academic Regulations	64
myPCC eLearning.....	73
Alternative Methods of Instruction.....	74
Graduation Requirements.....	75
Services for Students.....	79
Pueblo Corporate College	89
Pre-College Programs.....	90
Student Life	92
Important Legal Information.....	97
Degree and Certificate Programs.....	105
Course Descriptions.....	220
College Personnel.....	408
Index.....	426

Welcome to Pueblo Community College

PRESIDENT'S PHOTO

Let me be the first to welcome you to Pueblo Community College and express my sincere pleasure in your desire to achieve a higher education in an environment that provides quality academics and student support. Our faculty and staff are prepared to fully support you – at PCC you can **expect more** and you will **get more**. Our road map for programs, workforce development, community education, and student success has been designed with each student in mind.

PCC is a comprehensive community college and one of 13 schools that form the Colorado Community College System – the largest system of higher education in the state. Our service area spans more than 11,000 square miles and includes not only the main campus in Pueblo but branch campuses in Canon City, Durango and Mancos. If the traditional classroom and schedule do not fit your needs, PCC is pleased to offer hybrid and online learning options. We are a Hispanic-Serving Institution; diversity is welcome and respected.

In addition, we offer valuable resources to all PCC students:

Learning services include free tutoring, learning groups, study skills enhancement, test-taking strategies and accelerated basic skills development. These programs are not extras; rather, they are key paths to success. Your participation may allow you to take a higher course load and finish your program of study faster and may also significantly reduce academic stress.

Financial assistance includes scholarship guidance, loan programs and one-on-one counseling to help you complete the necessary applications. PCC also offers numerous opportunities for financial support. Funds are available to help meet the needs of students and generally require simple applications, but to be eligible you must apply by specific deadlines.

Academic, career and transfer advising are your road maps in your academic journey. Seek guidance early and often to keep on the most direct path to success. Our advisors will help you develop plans that are guaranteed to transfer to your next school or lead directly into job placement.

Student services provide critical support and enrich your PCC experience. Some services provide crucial resources to help you stay in school – Project ACCESS, the Panther Student Pantry and peer mentoring are examples. Assistance in locating child care or transportation services is available through our partnerships with community agencies. Our health clinic in Pueblo provides access to a professional medical staff and discounted health services. Finally, involvement in our many student activities and clubs will help you become more connected and engaged in your PCC experience.

We encourage you to begin planning for success by scheduling a visit to one of our campuses and exploring the campus website. Please accept our heartfelt welcome to the PCC family.

With warm regards,



Patricia A. Erjavec, PhD
President

For more information about our services or to arrange for a personal tour of PCC, please contact the Office of Recruitment on the main campus at 719.549.3116 or recruitment@pueblocc.edu. You may also contact the Fremont Campus at 719.296.6100 or the Southwest Colorado Community College Campuses at 970.385.2001 in Durango or 970.564.6201 in Mancos.

Campus Locations

Pueblo Campus - Serving Pueblo County

900 W. Orman Ave.
Pueblo, CO 81004
719.549.3200
Toll-free 888.642.6017

Fremont Campus - Serving Fremont and Custer counties

51320 West Highway 50
Cañon City, CO 81212
719.296.6100

Southwest Colorado Community College - Serving Archuleta, Dolores, La Plata, Montezuma
and San Juan counties

East Campus

The Commons
701 Camino del Rio, Suite 201
Durango, CO 81301
970.385.2001

West Campus

33057 Highway 160
Mancos, CO 81328
970.564.6201

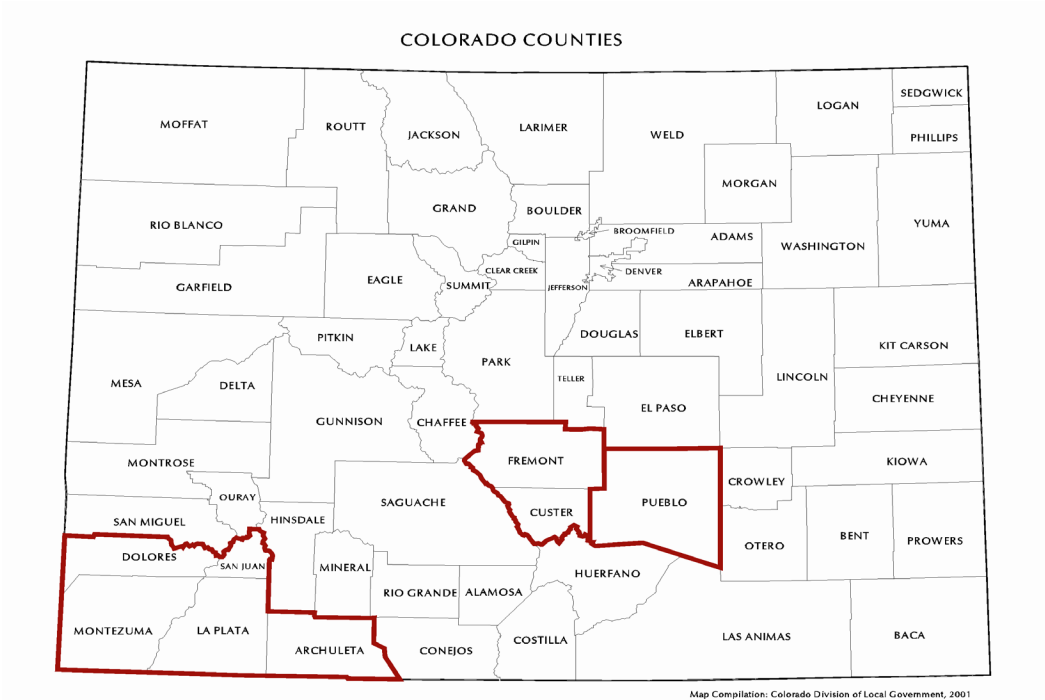


Table of Contents

Governance & Accreditation	3
Welcome	5
Campus Locations.....	6
Academic Calendar.....	8
About PCC.....	19
Getting Started at PCC.....	28
Applying for Admission	32
Transferring Credits.....	41
Financial Aid	46
Tuition and Fees	50
Basic Skills Assessment.....	53
Advising & Registration	58
Academic Regulations	64
myPCC eLearning.....	73
Alternative Methods of Instruction.....	74
Graduation Requirements.....	75
Services for Students.....	79
Pueblo Corporate College	89
Pre-College Programs	90
Student Life	92
Important Legal Information.....	97
Degree and Certificate Programs	105
Course Descriptions.....	220
College Personnel.....	408
Index.....	426

Academic Calendar - 2017-2018

Semester Length

PCC operates on the semester system and offers the following terms:

- Fall and Spring: Full Term (16 weeks), Fall/Spring I (8 weeks) and Fall/Spring II (8 weeks)
- Summer: Full Term (8 weeks), Summer I (4 weeks) and Summer II (4 weeks)
- Special-length courses offered during all regular semesters

Curriculum and total instructional time are the same regardless of the length of the term.

College Closures

Closure/Delayed Start due to Weather

Pueblo Community College makes every effort to remain open and hold classes as scheduled. Decisions to close or delay due to weather will be made based on current and predicted weather and road conditions. When there is reasonable evidence that inclement weather has created or is expected to create hazardous travel conditions, the College President or Chief Business Officer (in absence of the President) may announce a campus closure.

Closure/Delayed Start due to other Emergency

Closures/delayed starts due to other emergencies are determined on a case-by-case basis depending on the nature of the emergency. The College President or Chief Business Officer (in absence of the President) will announce a campus closure and act in accordance with the Emergency Operations Plan. Staff and Faculty should follow procedures found in the Emergency Procedures Guide (flip chart located in all offices and classrooms) and assist students in vacating college facilities.

Communication Procedure for Closures

When possible, the decision to close a campus or delay the start of classes/opening of offices will be made by 6 a.m. or earlier for full-day closures or delayed starts and by 3 p.m. or earlier for the early closure of a campus or cancellation of evening classes (classes starting at or after 5 p.m.).

MyPCC Alert is the main communication delivery method for announcements regarding a closure/delayed start. The College will also communicate via the College website, Facebook, Twitter and through local television stations, when possible.

Resuming Classes in the event of a Delayed Start

When a delayed start is in effect, all classes starting prior to the delayed start time will be canceled in full. For instance, if a campus has announced a delayed start time of 10 a.m., any classes with a start time occurring prior to 10 a.m. will be canceled in full even if the class would still be in progress after 10 a.m.

Classes/Events in Progress in the event of an early Closure

The College will make every attempt to give ample notice of an early closure; however, in cases of emergencies, this may not be possible. Faculty, instructors and staff must adhere to the procedures detailed in the Emergency Procedures Guide in the event of a sudden early closure due to an emergency.

Summer 2017

NOTE: Dates do not apply to CCCOnline

Full Term Session

Registration Begins	Monday	April 10
Tuition Due Date	Wednesday	May 24
Pre-drop for Non-Payment Warning	Wednesday	May 17
Registration Ends	Friday	May 26
Pre-drop for Non-Payment Warning	Wednesday	May 24
Memorial Day	Monday	May 29
Classes Begin	Tuesday	May 30
Schedule Adjustment Period	Tuesday-Wednesday	May 30, May 31
Pre-drop for Non-Payment Warning	Wednesday	May 31
Drop for Non-Payment	Monday	June 5
End of Refund Period/Census	Tuesday	June 6
Independence Day Holiday-Observed	Tuesday	July 4
Last Day to Withdraw	Thursday	July 13
Classes End	Monday	July 24
Grades Due	Tuesday	July 25

First 4 Week Session

Registration Begins	Monday	April 10
Registration Ends	Friday	May 26
Classes Begin	Tuesday	May 30
Schedule Adjustment Period	Tuesday	May 30
End of Refund Period/Census	Friday	June 2
Last Day to Withdraw	Tuesday	June 20
Classes End	Monday	June 26
Grades Due	Tuesday	June 27

Second 4 Week Session

Registration Begins	Monday	April 10
Classes Begin	Tuesday	June 27
Schedule of Adjustment Period	Tuesday	June 27
End of Refund Period/Census	Friday	June 30
Independence Day Holiday-Observed	Tuesday	July 4
Last Day to Withdraw	Wednesday	July 19
Classes End	Monday	July 24
Grades Due	Tuesday	July 25

Fall 2017

Full-Term Classes

Registration Begins	Monday	April 10
Tuition Due Date	Wednesday	August 16
Chairs Return	Monday	August 14
Faculty Return	Tuesday	August 15
Faculty Professional Development Day	Thursday	August 17
Pre-drop for Non-Payment Warning	Wednesday	August 16
Registration Closes	Friday	August 18
Schedule Adjustment Period	Monday-Friday	Aug. 21–Aug. 25
Full-Term Classes Begin	Monday	August 21
Pre-drop for Non-Payment Warning	Wednesday	August 23
Pre-drop for Non-Payment Warning	Wednesday	August 30
Drop for Non-Payment	Tuesday	September 5
End of Refund Period/Census	Wednesday	September 6
Labor Day Holiday	Monday	September 4
Midterm Week	Monday-Friday	Oct. 9–Oct. 13
Last Day to Withdraw	Saturday	November 18
Thanksgiving Holiday	Thursday	November 23
Thanksgiving Break (No Classes)	Monday-Saturday	Nov. 20–Nov. 25
Final Week of Classes	Monday-Saturday	Dec. 11–Dec. 16
Classes End	Saturday	December 16
Grades Due	Monday	December 18
Last Faculty Day	Friday	December 15
Holiday Break (Offices Closed)	Monday-Monday	Dec. 25–Jan. 1, 2018
All Staff Return	Tuesday	January 2, 2018

Fall I

Faculty Professional Development Day	Thursday	August 17
Registration Closes	Friday	August 18
Session Begins	Monday	August 21
Schedule Adjustment Period	Monday–Tuesday	Aug. 21–Aug. 22
End of Refund Period/Census	Monday	August 28
Labor Day Holiday	Monday	September 4
Last Day to Withdraw	Tuesday	October 3
Classes End	Saturday	October 14
Grades Due	Monday	October 16

Fall II

Session Begins	Monday	October 16
Schedule Adjustment Period	Monday–Tuesday	Oct. 16–Oct. 17
End of Refund Period/Census	Monday	October 23
Thanksgiving Break (No classes)	Monday-Saturday	Nov. 20–Nov. 25
Last Day to Withdraw	Tuesday	December 5
Classes End	Saturday	December 16
Grades Due	Monday	December 18
Last Faculty Day	Friday	December 15

Spring 2018

Full Term Classes

Registration Begins	Monday	November 6, 2017
All Staff Return	Tuesday	January 2, 2018
Chairs Return	Monday	January 8
Faculty Return	Wednesday	January 10
Tuition Due Date	Wednesday	January 10
Faculty Professional Development Day	Thursday	January 11
Registration Ends	Friday	January 12
Pre-drop for Non-Payment Warning	Wednesday	January 10
Full-Term Classes Begin	Monday	January 15
Schedule Adjustment Period	Monday–Friday	January 15-19
Pre-drop for Non-Payment Warning	Wednesday	January 17
Pre-drop for Non-Payment Warning	Wednesday	January 24
Drop for Non-Payment	Monday	January 29
End of Refund Period/Census	Wednesday	January 31
Midterm	Monday-Saturday	March 5-10
Spring Break ALL Campuses	Monday-Saturday	March 19-24
Last Day to Withdraw	Friday	April 20
Final Week of Classes	Monday-Saturday	May 7-12
Commencement (Pueblo & Fremont Campus)	Friday	May 11
Last Faculty Day	Friday	May 11
Commencement (Durango & Cortez Campus)	Sunday	May 13
Classes End	Saturday	May 12
Grades Due	Monday	May 14

Spring I

Faculty Professional Development Day	Thursday	January 11
Registration Ends	Friday	January 12
Session Begins	Monday	January 15
Scheduled Adjustment Period	Monday–Tuesday	January 15-16
End of Refund Period/Census	Monday	January 22
Last Day to Withdraw	Tuesday	February 27
Classes End	Saturday	March 10
Grades Due	Monday	March 12

Spring II

Session Begins	Monday	March 12
Schedule Adjustment Period	Monday-Tuesday	March 12-13
End of Refund Period/Census	Monday	March 19
Spring Break	Monday-Saturday	March 19-24
Last Day to Withdraw	Tuesday	May 1
Commencement (Pueblo & Fremont Campus)	Friday	May 11
Commencement (Durango & Cortez Campus)	Sunday	May 13
Classes End	Saturday	May 12
Grades Due	Monday	May 14

Summer 2018

Full Term Session

Registration Begins	Monday	April 9
Tuition Due Date	Wednesday	May 23
Pre-drop for Non-Payment Warning	Wednesday	May 16
Registration Ends	Friday	May 25
Pre-drop for Non-Payment Warning	Wednesday	May 23
Memorial Day	Monday	May 28
Classes Begin	Tuesday	May 29
Schedule Adjustment Period	Tuesday-Wednesday	May 29-May 30
Pre-drop for Non-Payment Warning	Wednesday	May 30
Drop for Non-Payment	Monday	June 4
End of Refund Period/Census	Tuesday	June 5
Independence Day Holiday-Observed	Wednesday	July 4
Last Day to Withdraw	Thursday	July 12
Classes End	Monday	July 23
Grades Due	Tuesday	July 24

First 4 Week Session

Registration Begins	Monday	April 9
Registration Ends	Friday	May 25
Classes Begin	Tuesday	May 29
Schedule Adjustment Period	Tuesday	May 29
End of Refund Period/Census	Friday	June 1
Last Day to Withdraw	Tuesday	June 19
Classes End	Monday	June 25
Grades Due	Tuesday	June 26

Second 4 Week Session

Registration Begins	Monday	April 9
Classes Begin	Tuesday	June 26
Schedule of Adjustment Period	Tuesday	June 26
End of Refund Period/Census	Friday	June 29
Independence Day Holiday-Observed	Wednesday	July 4
Last Day to Withdraw	Wednesday	July 18
Classes End	Monday	July 23
Grades Due	Tuesday	July 24

Fall 2018

Full-Term Classes

Tuition Due Date	Wednesday	August 15
Registration Begins	Monday	April 9
Chairs Return	Monday	August 13
Faculty Return	Tuesday	August 14
Faculty Professional Development Day	Thursday	August 16
Pre-drop for Non-Payment Warning	Wednesday	August 15
Registration Closes	Friday	August 17
Full-Term Classes Begin	Monday	August 20
Schedule Adjustment Period	Monday-Friday	Aug. 20–Aug. 24
Pre-drop for Non-Payment Warning	Wednesday	August 22
Pre-drop for Non-Payment Warning	Wednesday	August 29
Drop for Non-Payment	Tuesday	September 4
End of Refund Period/Census	Wednesday	September 5
Labor Day Holiday	Monday	September 3
Midterm Week	Monday-Friday	Oct. 8–Oct. 12
Last Day to Withdraw	Saturday	November 17
Thanksgiving Holiday	Thursday	November 22
Thanksgiving Break (No Classes)	Monday-Saturday	Nov. 19–Nov. 24
Final Week of Classes	Monday-Saturday	Dec. 10–Dec. 15
Classes End	Saturday	December 15
Grades Due	Monday	December 17
Last Faculty Day	Friday	December 14
Holiday Break (Offices Closed)	Tuesday-Tuesday	Dec. 25-Jan.1, 2019
All Staff Return	Wednesday	January 2, 2019

Fall I

Faculty Professional Development Day	Thursday	August 16
Registration Closes	Friday	August 17
Session Begins	Monday	August 20
Schedule Adjustment Period	Monday–Tuesday	Aug. 20–Aug. 21
End of Refund Period/Census	Monday	August 27
Labor Day Holiday	Monday	September 3
Last Day to Withdraw	Tuesday	October 2
Classes End	Saturday	October 13
Grades Due	Monday	October 15

Fall II

Session Begins	Monday	October 15
Schedule Adjustment Period	Monday–Tuesday	Oct. 15–Oct. 16
End of Refund Period/Census	Monday	October 22
Thanksgiving Break (No classes)	Monday-Saturday	Nov. 19–Nov. 24
Last Day to Withdraw	Tuesday	December 4
Classes End	Saturday	December 15
Grades Due	Monday	December 17
Last Faculty Day	Friday	December 14

Spring 2019

Full Term Classes

All Staff Return	Wednesday	January 2, 2019
Registration Begins	Monday	November 5
Chairs Return	Monday	January 7
Faculty Return	Wednesday	January 9
Tuition Due Date	Wednesday	January 9
Faculty Professional Development Day	Thursday	January 10
Registration Ends	Friday	January 11
Pre-drop for Non-Payment Warning	Wednesday	January 9
Full-Term Classes Begin	Monday	January 14
Schedule Adjustment Period	Monday–Friday	January 14-18
Pre-drop for Non-Payment Warning	Wednesday	January 16
Pre-drop for Non-Payment Warning	Wednesday	January 23
Drop for Non-Payment	Monday	January 28
End of Refund Period/Census	Wednesday	January 30
Midterm	Monday-Saturday	March 4-19
Spring Break ALL Campuses	Monday-Saturday	March 18-23
Last Day to Withdraw	Friday	April 19
Final Week of Classes	Monday-Saturday	May 6-11
Commencement (Pueblo & Fremont Campus)	Friday	May 10
Last Faculty Day	Friday	May 10
Commencement (Durango & Cortez Campus)	Sunday	May 12
Classes End	Saturday	May 11
Grades Due	Monday	May 13

Spring I

Faculty Professional Development Day	Thursday	January 10
Registration Ends	Friday	January 11
Session Begins	Monday	January 14
Scheduled Adjustment Period	Monday–Tuesday	January 14-15
End of Refund Period/Census	Monday	January 21
Last Day to Withdraw	Tuesday	February 26
Classes End	Saturday	March 9
Grades Due	Monday	March 11

Spring II

Session Begins	Monday	March 11
Schedule Adjustment Period	Monday-Tuesday	March 11-12
End of Refund Period/Census	Monday	March 18
Spring Break	Monday-Saturday	March 18-23
Last Day to Withdraw	Tuesday	April 30
Commencement (Pueblo & Fremont Campus)	Friday	May 10
Commencement (Durango & Cortez Campus)	Sunday	May 12
Classes End	Saturday	May 11
Grades Due	Monday	May 13

Summer 2019

Full Term Session

Registration Begins	Monday	April 8
Registration Ends	Friday	May 24
Tuition Due Date	Wednesday	May 22
Pre-drop for Non-Payment Warning	Wednesday	May 15
Pre-drop for Non-Payment Warning	Wednesday	May 22
Memorial Day	Monday	May 27
Classes Begin	Tuesday	May 28
Schedule Adjustment Period	Tuesday-Wednesday	May 28-May 29
Pre-drop for Non-Payment Warning	Wednesday	May 29
Drop for Non-Payment	Monday	June 3
End of Refund Period/Census	Tuesday	June 4
Independence Day Holiday-Observed	Thursday	July 4
Last Day to Withdraw	Thursday	July 11
Classes End	Monday	July 22
Grades Due	Tuesday	July 23

First 4 Week Session

Registration Begins	Monday	April 8
Registration Ends	Friday	May 24
Classes Begin	Tuesday	May 28
Schedule Adjustment Period	Tuesday	May 28
End of Refund Period/Census	Friday	May 31
Last Day to Withdraw	Tuesday	June 18
Classes End	Monday	June 24
Grades Due	Tuesday	June 25

Second 4 Week Session

Registration Begins	Monday	April 8
Classes Begin	Tuesday	June 25
Schedule of Adjustment Period	Tuesday	June 25
End of Refund Period/Census	Friday	June 28
Independence Day Holiday-Observed	Thursday	July 4
Last Day to Withdraw	Wednesday	July 17
Classes End	Monday	July 22
Grades Due	Tuesday	July 23

Fall 2019

Full-Term Classes

Tuition Due Date	Wednesday	August 14
Registration Begins	Monday	April 8
Chairs Return	Monday	August 12
Faculty Return	Tuesday	August 13
Faculty Professional Development Day	Thursday	August 15
Pre-drop for Non-Payment Warning	Wednesday	August 14
Registration Closes	Friday	August 16
Full-Term Classes Begin	Monday	August 19
Schedule Adjustment Period	Monday-Friday	Aug. 19–Aug. 23
Pre-drop for Non-Payment Warning	Wednesday	August 21
Pre-drop for Non-Payment Warning	Wednesday	August 28
Labor Day Holiday	Monday	September 2
Drop for Non-Payment	Tuesday	September 3
End of Refund Period/Census	Wednesday	September 4
Midterm Week	Monday-Friday	Oct. 7–Oct. 11
Last Day to Withdraw	Saturday	November 16
Thanksgiving Holiday	Thursday	November 28
Thanksgiving Break (No Classes)	Monday-Saturday	Nov. 25–Nov. 30
Final Week of Classes	Monday-Saturday	Dec. 9–Dec. 14
Classes End	Saturday	December 14
Grades Due	Monday	December 16
Last Faculty Day	Friday	December 13
Holiday Break (Offices Closed)	Wednesday-Wednesday	Dec. 25-Jan.1, 2020
All Staff Return	Thursday	January 2, 2020

Fall I

Faculty Professional Development Day	Thursday	August 15
Registration Closes	Friday	August 16
Session Begins	Monday	August 19
Schedule Adjustment Period	Monday–Tuesday	Aug. 19–Aug. 20
End of Refund Period/Census	Monday	August 26
Labor Day Holiday	Monday	September 2
Last Day to Withdraw	Tuesday	October 1
Classes End	Saturday	October 12
Grades Due	Monday	October 14

Fall II

Session Begins	Monday	October 14
Schedule Adjustment Period	Monday–Tuesday	Oct. 14–Oct. 15
End of Refund Period/Census	Monday	October 21
Thanksgiving Break (No classes)	Monday-Saturday	Nov. 25–Nov. 30
Last Day to Withdraw	Tuesday	December 3
Classes End	Saturday	December 14
Grades Due	Monday	December 16
Last Faculty Day	Friday	December 13

Spring 2020

Full Term Classes

Registration Begins	Monday	November 4
All Staff Return	Thursday	January 2, 2020
Chairs Return	Monday	January 6
Faculty Return	Wednesday	January 8
Faculty Professional Development Day	Thursday	January 9
Registration Ends	Friday	January 10
Tuition Due Date	Wednesday	January 8
Pre-drop for Non-Payment Warning	Wednesday	January 8
Full-Term Classes Begin	Monday	January 13
Schedule Adjustment Period	Monday–Friday	January 13-17
Pre-drop for Non-Payment Warning	Wednesday	January 15
Pre-drop for Non-Payment Warning	Wednesday	January 22
Drop for Non-Payment	Monday	January 27
End of Refund Period/Census	Wednesday	January 8
Midterm	Monday-Saturday	March 2-7
Spring Break ALL Campuses	Monday-Saturday	March 23-28
Last Day to Withdraw	Friday	April 17
Final Week of Classes	Monday-Saturday	May 4-9
Classes End	Saturday	May 9
Last Faculty Day	Friday	May 8
Commencement (Pueblo & Fremont Campus)	Friday	May 8
Commencement (Durango & Cortez Campus)	Sunday	May 10
Grades Due	Monday	May 11

Spring I

Faculty Professional Development Day	Thursday	January 9
Registration Ends	Friday	January 10
Session Begins	Monday	January 13
Scheduled Adjustment Period	Monday–Tuesday	January 13-14
End of Refund Period/Census	Monday	January 20
Last Day to Withdraw	Tuesday	February 25
Classes End	Saturday	March 7
Grades Due	Monday	March 9

Spring II

Session Begins	Monday	March 9
Schedule Adjustment Period	Monday-Tuesday	March 9-10
End of Refund Period/Census	Monday	March 16
Spring Break	Monday-Saturday	March 23-28
Last Day to Withdraw	Tuesday	April 28
Commencement (Pueblo & Fremont Campus)	Friday	May 8
Classes End	Saturday	May 9
Commencement (Durango & Cortez Campus)	Sunday	May 10
Grades Due	Monday	May 11

Welcome to Pueblo Community College

You've made the right choice!

For 84 years, Pueblo Community College (PCC) has provided the education and training that gives our students the skills they need to qualify for good jobs or transfer to a four-year school. We are a two-year community college accredited by The Higher Learning Commission. We are one of 13 colleges in the Colorado Community College System, the fastest-growing educational system in Colorado. We offer more than 50 associate degree programs and more than 150 certificates. We are a state leader in health care education.

Pueblo Community College has four locations to serve students' educational needs. The main campus is located in Pueblo and serves Pueblo County. The Fremont Campus, located in Cañon City, serves Fremont and Custer counties. Southwest Colorado Community College (SCCC), a division of Pueblo Community College, has two campuses in southwest Colorado. The SCCC West campus is located on Highway 160 between Mancos and Cortez and the SCCC East campus is located in Durango. SCCC serves Archuleta, Dolores, La Plata, Montezuma and San Juan counties.

The average age of our students is 28 and 27 percent are first-time college students. Approximately 83 percent receive some kind of financial assistance in the form of grants, scholarships, work-study jobs and/or student loans. Sixty percent of our students are female, 34 percent represent a minority and 34 percent are the first generation in their family to attend college. The US Department of Education has designated PCC as a Hispanic-Serving Institution.

We offer a variety of scheduling alternatives to meet your needs. You can choose among day or evening classes, weekend classes and online/hybrid classes and degree programs. To support your education, we offer professional counseling and advising services, as well as a wide range of academic support services such as tutoring, learning labs, workshops and adaptive services for those with disabilities. Our services include the PCC Health Clinic (Pueblo and Fremont campuses), the Dental Assisting Restorative Clinic, the Dental Hygiene Clinic, Cosmetology, Simulation Center and the Anatomy Lab, located on the Pueblo campus. Health services at the SCCC campuses are offered as scheduled.

If you are pursuing a four-year degree, PCC is a great place to spend your first two years of study. Our Associate of Arts and Associate of Science degrees are fully transferable to all Colorado public four-year institutions. We offer small classes, plenty of academic support and highly experienced instructors who are focused on helping you succeed.

PCC is a technologically advanced school that aims to provide a skilled and educated workforce to industry through its Gorsich Advanced Technology Center and Health Program facilities. Our partnerships with business and industry help provide the state-of-the-art equipment that enables students to acquire the highly technical skills needed to step right into the workforce upon graduating. PCC also offers hybrid courses. These classes provide an exciting and entertaining mix of learning environments that include blending a part of the traditional classroom with online instruction. With video clips, online chat rooms, blogging and online quizzes, many students are finding the new hybrid classes to be a great learning experience.

At PCC, you can earn the first two years of coursework towards a teaching degree. We offer Associate of Arts degrees in elementary education, elementary education with an Early Childhood endorsement and secondary education in science, math, English, social sciences, arts and music.

If you like working with people and want to be a social worker or psychologist, PCC is a great place to start. We offer social work classes that transfer to accredited social work programs across the nation. PCC also has great psychology classes that can jump start your path to a career as a psychologist.

PCC partners with a Small Business Development Center, providing free business services to new and prospective small business owners in Pueblo, Fremont and Custer counties. Through our Pueblo Corporate College we offer corporate training, lifelong learning and professional development classes. Our Pre-College Department provides the Gateway to College Program and GED preparation classes.

Established in 1981, the Pueblo Community College Foundation has supported learning for thousands of students. As education plays out on each of the PCC campuses, the foundation is committed to working with the college to bring positive changes to the lives of individuals, families and communities.

The foundation's mission is to align funding for Pueblo Community College through foundation-approved efforts that support and promote student success. Since its inception, the foundation has raised more than \$16 million to support PCC, its students and its programs of academic excellence.

The PCC Foundation is honored to have the opportunity to work with friends, alumni, businesses, community organizations and other grantors, each of whom are committed to lending their financial support to our organization with the intent of advancing all aspects of Pueblo Community College. Information may be accessed at the following [Website](#).

Foundation Mailing Address:

900 W. Orman Avenue
Pueblo, CO 81004

Foundation Physical Address:

1018 W. Orman Avenue
Pueblo, CO 81004
719.544.0677

Vision

Pueblo Community College is the first choice for success.

Mission

Pueblo Community College transforms lives, enriches communities and strengthens the regional economy by empowering individual achievement through a continuum of education.

Core Values

- **Achievement:** We embrace a diverse student body attending our institution of higher education and support all individuals in attaining high-quality postsecondary credentials across our academic disciplines. Through our retention efforts across the college, we work to keep students engaged and focused on completing their coursework to become highly skilled professionals and gain the most from their educational pursuits to achieve success in the workforce by meeting the demands of a global economy.

- **Excellence:** We embrace continuous quality improvement and innovation in all areas of the institution. We deliver high-quality programs and services that respond to the needs of the communities we serve and prepare students for success in an ever-changing, diverse and global workplace.
- **Integrity:** We advance our mission ethically and responsibly. We value fair and equitable treatment, participatory decision making and transparent resource management. We have an organizational culture that inspires high performance and accountability for behaviors, actions and results in a collaborative spirit.
- **Respect:** We provide a safe, caring and supportive environment conducive to the success and well-being of students, faculty and staff. We welcome diversity of backgrounds and opinions, recognize individual talents, encourage personal and professional growth, celebrate accomplishments and honor institutional traditions.
- **Scholarship:** We value and promote student, faculty and staff scholarship. We strive to create a student-centered learning environment that cultivates critical and creative thinking, problem solving, intellectual inquiry and global awareness. Through continuing development, we expect faculty and staff to be productive workers, responsible decisionmakers and servant leaders. We believe that scholarship should occur in all organizational levels through knowledge sharing and effective communication.
- **Teamwork:** We believe inclusive cooperative relationships are critical to the vitality and long-term success of our institution. We strategically pursue mutually beneficial partnerships to help students learn and advance other institutional priorities. We encourage active collaboration within and between departments and operational areas. We believe in the importance of nurturing student-to-student and student-to-faculty/staff interactions as a means of promoting student success.

Purposes

- Prepare students for entry into the workforce, career advancement or career change through certificate and associate degree programs
- Prepare students for transfer to baccalaureate institutions by providing transfer degrees, courses and services
- Provide opportunities to develop and continually update job skills to meet the demands of a technological and global economy
- Provide programs and experiences that foster individual and professional development
- Prepare students for entry-level college courses
- Provide comprehensive services to support the educational experience of a diverse student population
- Deliver instruction through traditional, alternative and distance learning methods
- Provide a quality learning environment supported by teaching excellence and freedom of inquiry
- Support the economic development of the community through business initiatives and partnerships
- Contribute to the community by participating in civic and professional activities

General Education Philosophy

General education at Pueblo Community College is an integral and important part of the student's college experience. General education provides degree-seeking students with a core of basic knowledge, critical thinking skills, intellectual concepts and attitudes that will enable them to function effectively in the community. General education also serves as a foundation to promote lifelong learning.

PCC Institutional Student Learning Outcomes (ISLOs) (formerly General Educational Learning Outcomes GELOs)

Upon completing a course of study at Pueblo Community College, students will demonstrate:

1. **Critical Thinking and Problem Solving** through their ability to interpret and analyze information, explore implications, construct logical conclusions and formulate creative solutions.
 - a. Interpret, analyze and assess available evidence, information and ideas
 - b. Explore implications, inferences, assumptions and alternate solutions
 - c. Construct and defend logical conclusions that are firmly supported by sufficient and relevant evidence
 - d. Formulate creative solutions in consideration of and in response to relevant contexts, opinions and opposition
2. **Effective Communication** through their ability to organize and express ideas clearly, purposefully and compellingly, attending to the needs of the audience and following disciplinary conventions.
 - a. Organize and express ideas clearly in both written and oral communication
 - b. Convey ideas purposefully (persuasive, informative, etc.) and with a clear focus
 - c. Employ conventions of communication in accordance with disciplinary and/or professional expectations
 - d. Select and apply compelling and appropriate communication strategies that attend to the values, knowledge, interests and needs of the audience
3. **Quantitative Reasoning** through their ability to interpret, explain, represent and apply quantifiable information to identify connections, formulate reasonable solutions and defend conclusions.
 - a. Interpret and explain information presented as numerical data, functions and formulae
 - b. Represent information as numerical data, functions and formulae
 - c. Select appropriate numerical data, functions and formulae to perform accurate computations
 - d. Identify, evaluate and infer reasonable assumptions based on quantitative information
 - e. Formulate reasonable solutions and draw logical conclusions from numerical data
 - f. Interpret numerical data and calculations in defense of an argument
4. **Textual Literacy** through their ability to comprehend, locate, evaluate and select and apply suitable information, materials and methods in order to accomplish tasks.
 - a. Recognize, summarize and explain central and supporting ideas as well as implied and abstract ideas in a variety of written, oral and visual texts in multiple genres, including academic and technical sources
 - b. Locate relevant and reliable information from a variety of sources as appropriate for the context
 - c. Evaluate the relevance and reliability of information and its appropriateness for the context
 - d. Select suitable information and materials and apply proper methods in order to accomplish tasks

5. **Professionalism and Social Consciousness** through their ability to demonstrate personal responsibility, interpersonal skills through appropriate conduct and teamwork, and civic and cultural engagement.
- a. Personal Responsibility:
 - i. Demonstrate personal accountability through time management, preparedness and honoring commitments
 - ii. Exhibit self-efficacy by growing personally in response to constructive criticism, demonstrating persistence and utilizing support resources as needed
 - iii. Practice ethical behavior by demonstrating honesty, trustworthiness and integrity of work
 - b. Interpersonal Skills:
 - i. Exhibit appropriate conduct and behavior in accordance with disciplinary and/or professional expectations
 - ii. Demonstrate respectful, fair and equal treatment of all people
 - iii. Contribute positively to collaboration and teamwork by offering ideas, assistance and encouragement
 - c. Civic and Cultural Engagement:
 - i. Engage with local and extended communities to promote civic action and social improvement
 - ii. Examine and acknowledge differing views and express appreciation for diversity
 - iii. Recognize the interconnectivity of important issues and broaden disciplinary and personal knowledge to include overarching social, ecological, economical and political issues
 - iv. Explore the relationships between the ideas, values and practices of different groups of people across cultures and throughout history

Academic Quality Improvement Program (AQIP)

We strive constantly to improve the quality of our services to students and the community. To foster this improvement, we have adopted the Academic Quality Improvement Program (AQIP) sponsored by The Higher Learning Commission. Under this process, PCC is committed to continuous, systematic and measurable quality improvement.

PCC Promise

- To always recognize and greet you with a smile
- To listen to you
- To respond to your needs
- To respect and value you
- To celebrate your accomplishments and successes

Colorado Student Bill of Rights

The General Assembly implemented the Student Bill of Rights (C.R.S. 23-1-125) to ensure students enrolled in public institutions of higher education have the following rights:

- a. Students should be able to complete their Associate of Arts and Associate of Science degree programs in no more than 60 credit hours or their baccalaureate programs in no more than 120 credit hours unless there are additional degree requirements recognized by the commission.

- b. A student can sign a two-year or four-year graduation agreement that formalizes a plan for that student to obtain a degree in two or four years, unless there are additional degree requirements recognized by the commission.
- c. Students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees.
- d. Students have a right to know which courses are transferable among the state public two-year and four-year institutions of higher education.
- e. Students, upon completion of core general education courses, regardless of the delivery method, should have those courses satisfy the core course requirements of all Colorado public institutions of higher education.
- f. Students have a right to know if courses from one or more public higher education institutions satisfy the student's degree requirements.
- g. A student's credit for the completion of the core requirements and core courses shall not expire for 10 years from the date of initial enrollment and shall be transferable.

Assessment of Student Learning

At Pueblo Community College, we believe that the systematic assessment of student learning is perhaps the most important aspect of teaching and knowing whether students are learning what we want them to learn as they graduate from a program of study or complete a course. Through assessment activities, faculty and administration may identify key areas of needed improvement in program or course design to improve student learning. Our accrediting body, the Higher Learning Commission, expects that we assess institutional student learning outcomes (ISLOs), program student learning outcomes (PSLOs) and course student learning outcomes (CSLOs) each year on a cycle determined by the faculty. In an effort to record student performance on these outcomes, PCC has adopted the nationally recognized eLumen Assessment Management System to facilitate and record our results. The college publishes an annual report on the Assessment of Student Learning to inform all stakeholders of our results and recommended improvements. The PCC Assessment Committee, composed primarily of full-time faculty, develops the assessment plan, establishes the assessment cycle, and provides training materials. Each academic division also has an assessment lead to help faculty complete their assessment tasks each year. The chief academic officer (CAO) and the academic deans support college-wide assessment efforts by providing resources in the form of people, professional development and dedicated time to work on assessment activities.

History of the College

Origins

Pueblo Community College traces its origin to 1933, when Southern Colorado Junior College (SCJC) was incorporated. SCJC classes were held on the top floor of the Pueblo County Courthouse and graduated the first class of 17 students in 1935. In 1936 the first building on the current Orman Avenue campus was built on land donated by the Colorado Fuel and Iron Corporation. One year later, local citizens made a commitment to support the institution with county taxes and organized the Pueblo County Junior College District. The institution was renamed Pueblo Junior College.

Pueblo County voters approved \$210,000 for building facilities in 1938 and, over the next two years, work was completed on an Arts Building and a gymnasium. In 1946, the institution gained approval for vocational rehabilitation training and a new vocational-technical building opened four years later. The school was renamed Pueblo College.

Establishment of Southern Colorado State College

The Pueblo Junior College District was dissolved in 1961 when Colorado's General Assembly enacted legislation to change the status of Pueblo Junior College to a four-year, degree-granting institution governed by the Board of Trustees for State Colleges. The college was named Southern Colorado State College (SCSC). It grew rapidly and offered educational programs both at the Orman Avenue campus and at a newly developing campus north of Pueblo's Belmont residential district.

Development of the College for Community Services and Career Education

The need for additional secondary, post-secondary and adult vocational training in southern Colorado was recognized not only by the college administration but also by the community and many state agencies. Most of the Orman campus buildings had a vocational orientation and the decision to revitalize the campus as a vocational-technical training center was based on both past programs and functional accommodations. In 1974, Southern Colorado State College gave the name College for Community Services and Career Education to the vocational activities located on the Orman Campus. These vocational programs provided training to secondary, post-secondary, adult and special students.

In 1975, the Colorado General Assembly passed legislation that would allow Southern Colorado State College to operate the College for Community Services and Career Education as a technical community college. This change was made to enable the programs to be eligible for state and federal vocational funds within the state's Community College and Vocational System.

We Become Pueblo Community College

In 1978 the Colorado General Assembly passed a bill that changed the status of the College for Community Services and Career Education from a component of the University of Southern Colorado to a separate and free-standing educational entity. On July 1, 1979, Pueblo Vocational Community College became a State System Community College and on July 1, 1982, the name was officially changed to Pueblo Community College (PCC).

By 1987 PCC had become a comprehensive community college, offering a broad range of general, personal, vocational and technical education programs as well as providing two-year transfer programs to qualify students for admission to the junior year at other colleges and universities. Today we place equal emphasis on vocational and transfer degree programs.

PCC's history of offering courses in Cañon City blossomed into a more permanent presence in 1986 when we leased facilities on the grounds of the Holy Cross Abbey. A community fund drive that raised more than \$1 million allowed us to secure \$8.2 million in state funding for a stand-alone campus. Ground was broken on March 11, 2000, for a new 33,000 square-foot multi-functional building. Classes were first held in the new Fremont Campus facility in fall of 2001.

In October 1987, Pueblo Community College began providing community college educational opportunities to area residents in five southwestern Colorado counties. The campus was named the Southwest Center. The first classes were offered in the spring semester. In February 1988, the Colorado Commission on Higher Education placed the five southwestern counties within the service area of Pueblo Community College.

On January 30, 2008, San Juan Basin Technical College and Pueblo Community College (PCC) signed a Memorandum of Understanding forming an educational partnership to "solidify and enhance the working and long-term relationships between the two institutions ... and to maximize efficiencies and resources as appropriate." On April 14, 2008, the SJBTC Board of Control signed a resolution directing the administrative officers of SJBTC to do all things necessary to effectuate a merger with PCC in as expedient a manner as

possible, including working with elected representatives to carry the necessary legislation to make the alliance possible. Legislation for the merger (Senate Bill 09-043) was drafted with support and input from Senator Jim Isgar and Representative Ellen Roberts. The bill was unanimously supported by the Senate and the House Education Committees and signed by Governor Bill Ritter on May 20, 2009.

As a result of Senate Bill 09-043, the former San Juan Basin Technical College and the former Pueblo Community College Southwest Campus operate in Southwest Colorado, Region 9, as Southwest Colorado Community College (SCCC), a division of Pueblo Community College.

Today, PCC is one of the most dynamic and progressive community colleges in Colorado. We continually strive to provide modern facilities, state-of-the-art equipment and comprehensive technical and transfer programs that prepare students to enter the job market or transfer to a four-year school. Our faculty and staff are committed to student success, offering quality classroom instruction and academic support at our four campuses.

Campuses

Pueblo Campus

The Pueblo campus located in Pueblo, Colorado, serves students in Pueblo County. The main campus for Pueblo Community College provides oversight of all college operational functions – eight buildings on 33 acres, where more than 3,356 students attend classes working towards their degrees or certificates. The campus is wireless and has up-to-date technology in classrooms and laboratories, as well as extensive student support services toward academic excellence.

The extensive degree and certificate offerings, which will lead toward a career in business and industry or transfer to a four-year university, can be located in the Degree and Certificate Programs section.

Fremont Campus

The Fremont Campus located in Cañon City, Colorado, provides educational programs and services to the citizens of Fremont and Custer counties. We offer modern facilities, up-to-date technology, a full-service enrollment and academic advising center, a learning resource center, a bookstore, comprehensive nursing and science labs and many student activities. We serve students who are preparing to transfer to four-year colleges as well as those preparing for careers in business and industry.

We offer the following degrees and certifications through the Fremont Campus:

- Associate of Science
- Associate of Arts
- Associate of Arts – Emphasis in Business Management or Social Work
- Associate of Arts – Criminal Justice, Early Childhood Education, Education, History and Psychology
- Associate of Applied Science – Nursing
- Associate of General Studies
- Certificate – Emergency Medical Technician, Emergency Medical-Intermediate, Nurse Aide, Phlebotomy, Fire Science (Wildland), and Structural Welding Introduction
- Emergency Medical Services Program

Courses supporting other PCC degrees and certificates are offered at the Fremont Campus. Students can begin many PCC programs at the Fremont Campus, but may need to finalize programs at a different campus. The campus offers a full complement of GT Pathways (General Education transfer courses).

Southwest Colorado Community College (SCCC), a division of Pueblo Community College

The SCCC campuses provide educational programs and services to the citizens of Archuleta, Dolores, La Plata, Montezuma and San Juan counties in the southwest corner of Colorado. Modern facilities, up-to-date technology and full-service enrollment and academic advising centers (Go!Zone) are located at both campuses and we have an online bookstore for purchasing textbooks and other supplies. Students can enroll in transfer degree options or career and technical pathways to prepare for transfer to four-year colleges or a career in business and industry.

The West Campus is located between the towns of Mancos and Cortez and the East Campus is located in Durango at The Commons Building.

We offer the following degrees and certifications:

- Associate of Arts
- Associate of Arts – Business Management, Early Childhood Education and Psychology
- Associate of Science
- Associate of General Studies (Generalist)
- Associate of General Studies – Early Childhood Education
- Associate of Applied Science – Automotive Service Technology, Cosmetology, Early Childhood Education, Emergency Medical Services-Paramedic, Medical Assistant, Nursing, Radiologic Technology and Welding
- Certificates – Automotive, Cosmetology, Culinary Arts (offered on Pueblo Campus), Early Childhood Education (Director, Group Leader and Infant Toddler), Emergency Medical Services, Medical Assistant, Nurse Aide, Southwest Regional Law Enforcement Academy and Welding

We have developed several transfer articulation agreements with Fort Lewis College located in Durango, Colorado and can assist you with transferring to Fort Lewis College or to any other four-year college.

You are encouraged to check with an advisor to locate the degree or certificate of your choice and the campus location where it is offered. Not all certificate or degree options are available at all campuses. For a complete listing of all Degree and Certificate Programs (and campuses that offer the programs), please visit the following [website](#).

Getting Started at Pueblo Community College

Step 1: START at the Go!Zone Enrollment Center Help Desk

Step 2: Apply for Admission

You may apply for admission one of two ways:

- Apply at www.pueblocc.edu. Click Apply Online under the Academics tab.
- Visit any PCC registration station. Administrative personnel will help you apply.

Please refer to the *Admission* section of this catalog for detailed information about your application.

Step 3: Register for the College Opportunity Fund (COF)

Apply for the COF on the online [admissions application](#). If you do not have access to the internet, you may go to any campus registration station to sign up for the COF. For more information, please see the Paying for College section of this catalog.

Step 4: Take the Basic Skills Placement Test

Contact the PCC campus closest to you for the Accuplacer basic skills test schedule. Under some circumstances, you may be exempt from taking the test. Please refer to the Basic Skills Testing section of this catalog for more information.

Step 5: Apply for Financial Aid

To apply for financial aid, complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov. We will base your financial aid award on the number of credits you register for each semester. All information, guidelines and policies related to financial aid are available from the PCC Financial Aid Office. Please refer to the Financial Aid section of this catalog for more information.

Step 6: Meet with an Academic Advisor

All new students should meet with an academic advisor to establish an educational pathway plan. You can meet with an advisor by going to the Go!Zone for walk-in service or call 719.549.3177 (Pueblo), 719.296.6100 (Fremont), 970.247.2929 (SCCC-East) or 970.564.6220 (SCCC-West) to schedule an appointment. Continuing students should contact their assigned faculty advisor prior to registering for classes. If you do not yet have a declared major, please visit with an advisor.

Step 7: Register for Classes

Register for classes [online](#). Click on myPCC Portal at the top of the PCC webpage. Sign in to the Portal and go to the Student tab, then to Registration Tools. Click on the Look up Classes or Add or Drop Classes links to search for classes. Refer to the current PCC Catalog for more information.

Step 8: Attend New Student Orientation

If you are a new or transfer student who is enrolling in more than six (6) credit hours, it is highly recommended you attend an orientation session prior to the start of your first semester. During orientation you will receive valuable information about PCC policies, as well as information regarding college success, study skills, time management and services available to you. Contact the Go!Zone for dates and times or look up AAA 075 sections in the schedule of classes. An online orientation is also available.

Step 9: Obtain a PCC Panther One card (ID card)

After registering and paying for your classes, visit the Welcome Center – lower level of the Student Center on the Pueblo Campus, Bookstore on the Fremont Campus and the Go!Zone at the Southwest Colorado Community College campuses – to obtain your PCC Panther One Card. You will need to bring a copy of your class schedule and a photo ID. The One Card is required for identification at student-sponsored events and at various offices and service centers at all of PCC's campuses. **You will pay a one-time One Card fee during the first semester you attend.** If you lose your card, you will be charged a replacement fee.

Step 10: Make sure you can access your PCC email Account

This is our primary way to communicate with you. After you become a student, we will not send information to your personal email account. All students should regularly check their college-issued student email accounts so they don't miss important announcements. To access your student email, log in to the myPCC Portal and click the Student Email icon on the top right corner of the page. If you have problems opening your email, please call 1.888.800.9198 for assistance.

Step 11: Arrange to pay tuition and Fees

Visit the Cashier's Office or go online to the myPCC Portal, Student Finance tab, and view Tuition Bill to pay your tuition and fees. PCC accepts cash, checks and valid third-party payments. You can also pay your tuition and fees with Visa, Discover, MasterCard or American Express.

Step 12: Register your vehicle to receive a parking Permit

After registering and paying for your classes, visit the Welcome Center – lower level of the Student Center on the Pueblo Campus, Bookstore on the Fremont Campus and the Go!Zone at the Southwest Colorado Community College campuses – to get your parking permit. Your parking placard/hangtag is valid as long as you are enrolled at PCC. You must renew your validation tag each semester.

Step 13: Purchase your textbooks at the college Bookstore

As early as possible before the semester starts, go to the PCC Bookstore or website to obtain your required textbooks and supplies. The PCC bookstores also offer general interest books, art supplies, office supplies, basic school supplies, calculators, greeting cards, clothing, glassware, and gift items. Books can be purchased on campus at Pueblo and Fremont campuses. All students can purchase textbooks at the bookstore [website](#).

Step 14: Complete Haven Plus, Part 1

All new, returning and transfer students are required to complete a sexual violence awareness and prevention program. PCC utilizes the online [Haven Plus](#) program for students to fulfill this requirement.

Haven Plus is an interactive program that addresses critical issues of sexual assault, relationship violence, stalking and sexual harassment. Haven Plus also addresses healthy relationships and bystander intervention.

Step 15: Be sure to attend your first day of class!

ADD PHOTO

Applying for Admission

Admissions & Records

You will interact with the Admissions & Records Office from the time you apply until you graduate. We provide the following services:

- Receive and process all admissions applications and supporting documents
- Administer all admissions policies
- Coordinate registration
- Process course adds, drops and withdrawals
- Maintain all student academic records, process all requests for transcripts and verify enrollment
- Receive and process Graduation Planning sheets and mail diplomas to graduates
- Provide residency requirements and petitions, student Privacy Act information and access to PCC catalogs and current class scheduling
- Provide information on general enrollment procedures
- Administer Veterans Assistance (VA) services related to student enrollment and VA educational benefits at PCC
- Evaluate credits for transfer students, including previous assessment test scores (ACT, SAT, etc.)

IMPORTANT NOTE: Your Student Records

You are responsible for verifying your records and ensuring that they are accurate and up to date. PCC cannot be held responsible for notifying you in a timely manner if your address and/or telephone number are incorrect. You can update your address and phone information by accessing your myPCC Portal account on the [PCC home page](#) using your student ID number and your password.

You will be required to show valid identity documentation when requesting access to your student records: Colorado driver's license, Colorado identification card, valid U.S. passport, out-of-state driver's license, foreign passport w/photo, military ID/common access card, Certificate of Naturalization w/photo, valid I-551, valid EAH/temporary resident, Refugee/Asylee I-94 w/photo, BIA identification card w/photo or VA card w/photo.

Admission Policy

PCC has an open-door admission policy. This means there are no admission requirements if you are 17 years of age or older. However, admission to PCC does not guarantee that you can enroll in certain courses or programs that may have their own specific admission requirements.

You may [apply online](#) (click the Apply Online link under the Academics tab), in person at any PCC registration station or by filling out an application form and sending or taking it to the Go!Zone of the campus you attend. The address of the main campus is:

Admissions Office
Pueblo Community College
900 W. Orman Ave.
Pueblo, CO 81004

Student Classification

PCC uses several means of classifying students, depending on the purpose of the classification.

1. Unclassified/Classified Status

When you apply for admission, we classify you in one of two ways:

Unclassified – Unclassified students are not eligible for financial aid (including some scholarships).

Classified – Classified students may be eligible for financial aid. Note: All financial aid recipients **MUST** be Classified.

To become Classified, you must:

- Be admitted to PCC,
- Take the Community College Accuplacer basic skills test; and
- Officially declare a major in an approved associate degree or certificate program. To declare a major, complete the Change of Program form located on your Student tab in the myPCC Portal.

Effective July 1, 2011, concurrently enrolled postsecondary students may enroll as regular students at PCC. Although concurrently enrolled students are not eligible for financial aid, they are eligible to declare a program of study and pursue a certificate or degree.

2. Class Rank

Your class rank is based on the number of college-level semester credit hours you have earned. PCC has two class ranks:

1. Freshman – fewer than 30 hours
2. Sophomore – 30 or more hours

3. Part-time/Full-time/Auditor Status

Part-time student

You are a part-time student if you are carrying fewer than 12 credits per semester.

Full-time student

You are a full-time student if you are carrying 12 or more credits per semester.

Auditor

When you audit a course, you enroll in a course for which you receive no formal transcript grade. As an auditor, you regulate your own course attendance, take no examinations and receive no credit. The symbol "AU" is recorded on your transcript in place of a grade. If you wish to audit a course, you must indicate your intent to audit at registration or before the refund/census period ends. Audited courses are not eligible for the COF stipend or financial aid; if you are a veteran, you will not receive veteran's benefits for audited classes. Therefore, you are responsible for the full in- or out-of-state tuition for any courses that you audit.

You must tell your instructor that you are auditing a course.

Change/Declaration of Degree or Major

You must complete the Accuplacer basic skills assessment test before you can declare a degree or major in any approved program. You may declare or change your degree or major online by completing the change of program form on your Student tab on the myPCC Portal. If you wish to change your major to a health or public safety program or cosmetology, you must be accepted into the program by the department chair. Changing a declared degree or major may affect your financial aid eligibility. You should consult with an academic advisor prior to making any changes.

High School Students Concurrent Enrollment Programs

Pueblo Community College offers full-time and part-time concurrent enrollment options, which count both for high school and college credit. Students may take courses to complete mini-certificates, certificates, associate degrees or course requirements that transfer to a four-year university. There are hundreds of courses from which high school students may choose in academic or vocational and technical areas.

Students interested in attending Pueblo Community College while still in high school must demonstrate their ability to be successful in each course they take by meeting minimum requirements. First, students must have a qualifying ACT, SAT or Accuplacer. Second, students must meet the prerequisites for all courses they wish to take. Finally, students must meet the standards of the program to which they are applying as determined by their school district (i.e., GPA, class standing).

High school students interested in a Concurrent Enrollment Program through Pueblo Community College should contact their high school counselor or the Center for Academic Advising in Pueblo – 719.549.3177; Fremont (Canon) Campus – 719.296.6102; SCCC East (Durango) – 970.385.2012; and SCCC West (Mancos) – 970.564.6212 for information, deadlines and application packets.

Effective July 1, 2011, concurrently enrolled postsecondary students may enroll as regular students at PCC. Although concurrently enrolled students are not eligible for financial aid, they are eligible to declare a program of study and pursue a certificate or degree.

Re-admission to PCC

If you are a former PCC student who has not attended PCC for one year or more, you must complete a new application for admission with your current address, phone number, and residency information.

Transfer Applicants

If you have attended another college or university and are seeking admission to PCC for the first time, you are considered a Transfer Applicant. If you are seeking classified status and wish to transfer credit from your previous college, you must ask that college to mail your official transcripts to this address:

Records Office
Pueblo Community College
900 W. Orman Ave.
Pueblo, CO 81004
888.642.6017 – Ext. 3017

Hand-delivered transcripts will not be accepted. Transcripts must be received as soon as possible and within your first term of enrollment.

For more information about transferring from another institution, see the Transferring Credit section of this catalog.

International Student Applicants

An international student is one who attends PCC on a nonimmigrant student visa (usually an F, J or M nonimmigrant visa). Legally admitted immigrants and refugees are not considered international students. Generally, the policies described in this catalog apply to international students as well as domestic students. However, by federal law, some special policies apply only to international students.

Applying for admission as an international student

We will consider your application only if you submit all documents by the following deadline dates:

- First Monday in April for Summer and Fall semesters
- First Monday in November for Spring semester

If you are a resident of another country, you must submit the following documents to apply for admission:

- An application for admission. You can get an application from this address:

Admissions Office
Pueblo Community College
900 W. Orman Ave.
Pueblo, CO 81004

- Two official transcripts of all work completed in high school, college or their equivalent. One transcript must be in your native language and the other must be in English. The transcripts must contain the following items:
 - Courses taken
 - Grades earned
 - Length of classes
 - Length of school term

In addition, please make sure that the issuing institution includes an explanation of all terminology that appears in your transcript. Your former schools or colleges must send all transcripts directly to the Admissions Office at the above address. We do not accept hand-delivered transcripts. All transcripts must bear the official seal of the issuing institution.

- A financial statement/affidavit with support describing all resources provided for you while you are in the United States. A certified bank statement in the name of the sponsor, issued from the sponsor’s bank and dated within the last six (6) months, must be provided for each source of funding. **You cannot register without this statement.** PCC has no institutional funds to support international students. You must be able to meet all financial obligations while attending PCC.
- Verification of health insurance coverage. This insurance is mandatory. You may obtain it through PCC or from your home country. You are required to submit verification of current insurance coverage to the Admissions & Records Office prior to the start of classes.
- English Placement Exam scores. If you are a first-time freshman international student and you are from a country where English is not the only native language, you must meet one of these requirements:
 - Test of English as a Foreign Language (TOEFL): A total minimum score of 450 on the paper-based version or 133 on the computer-based version or Internet Based Test (TOEFL; Bt) 45-46. To register for the TOEFL, write to the Publications Office, P.O. Box 6154, Princeton, NJ 08540, USA; or check with the U.S. Embassy or the U.S. Information Service Center for TOEFL information.

The TOEFL code number for PCC is 4634. To have TOEFL scores sent directly to PCC, please enter 4634 on your answer sheets when you take the TOEFL examination. If you have already taken the test, enter 4634 on the Score Report Request Forms.

- ELS Language Center: A score of 109.

If you are a **transfer international student**, you must meet one of the above English proficiency requirements and you must have an overall cumulative grade point average of 2.0 or above.

Note: When you submit a document to PCC, it becomes our property. We cannot return it to you. Therefore, please do not submit any document in its original form. Instead, submit an official or certified copy of the document. The official version is a copy of the original that has been notarized or certified by a recognized official source attesting that the document is a true copy of the original.

Other requirements for International Students

- Complete PCC assessment tests, new student orientation and advising before registering for classes. Your scores on the placement tests will determine which classes you take in English, mathematics, reading and computer literacy.
- **Pay tuition and fees in full at the time of registration.** International students on F-1 visas pay the same tuition and fees as non-resident students.
- Comply with immigration requirements regarding the number of credit hours you take while attending PCC. U.S. Immigration Customs Enforcement regulations require that international students on F-1 visas carry and complete a minimum of 12 credit hours per semester and that they complete their educational objectives within a reasonable period of time. If you do not comply with ICE Regulations, we will report your status to ICE.
- Comply with the minimum grade point average requirements found under Academic Probation and Suspension in the *Academic Regulations* section of this catalog.

Limited-Entry Programs

If you want to apply for a limited-entry program, you must apply to the program itself (in addition to applying for admission to the college).

The following programs are limited entry:

Automotive	Cosmetology
Dental Assisting	Dental Hygiene – AAS & BAS
Emergency Medical Services	Fire Science Academy
Law Enforcement Academy	Medical Assistant
Nursing	Nurse Aid
Occupational Therapy Assistant	Pharmacy Technician
Physical Therapist Assistant	Phlebotomy
Psychiatric Technician	Radiologic Technology
Respiratory Care Practitioner	Surgical Technology

These programs have specific entrance requirements. You may not enroll in limited-entry program courses until you are formally accepted into the program.

Before you are admitted to a limited-entry program, you must complete a criminal background check and a drug screen. Certain felonies or misdemeanors will preclude you from entering a limited-entry program. For further information, including specific timelines for completion of the background check and drug screen, contact your program advisor.

Upon admission to a health professions limited-entry program, the following additional requirements must be completed:

- Submission of a health certification form documenting current immunizations, TB skin test, CPR training and receipt of Essential Job Functions
- Some program/clinical sites will require a flu and varicella (chickenpox) vaccine
- Purchase of liability insurance

- Purchase of supplies, equipment and/or uniforms specific to program (contact department for detailed information)

It is your responsibility to meet the medical requirements of the program you wish to enter. If you are allergic or sensitive to latex, be aware that in Health and Public Safety programs, latex products are used extensively during training and in the workplace. If you have an allergy or sensitivity, we will ask you to sign a release and you may have to observe special precautions.

Note: Some clinical courses may not be available when you want to take them because of changes occurring in the health care industry. This could extend the length of your program.

Residency Classification

When you are admitted or readmitted to PCC, we classify you as either a *resident* or a *non-resident* of Colorado for tuition purposes, according to the provisions of Title 23, Article 7, Colorado Revised Statutes, as amended. You have the right to challenge your tuition classification by the census date of each semester. To do so, obtain a Petition for In-State Tuition Classification from the Admissions Office and complete and return the petition with the required documentation to the Admissions Office. We will use the documents supplied by you, along with the answers to the residency questions on the petition, to make a final residency decision. Students who are under the age of 23 and unmarried are classified according to their parents' residency status. Contact Admissions for additional information.

To be classified as a *resident*, you must meet two tests of domicile:

- 1) **Presence:** You must have been physically domiciled in Colorado for twelve (12) continuous months prior to the first day of classes.
- 2) **Intent:** You must document that Colorado is your permanent state of residence.

It is not enough to document **presence** but not **intent**. Furthermore, you cannot rely on just one document to prove intent. Examples of the kinds of documents you might submit are listed in the following table.

Criteria for Residency	Example of Document
Employment in Colorado	Pay stub
Payment of Colorado state income tax	Colorado state tax return
Ownership of residential real estate in Colorado	Real estate tax bill
Primary residence in Colorado	Colorado state tax return
Graduation from a Colorado high school	High school diploma or transcript
Registration of motor vehicle in Colorado	Car registration
Acceptance of future employment in Colorado	Letter from your future Colorado employer offering you a job
Voter registration	Mailing you received from the County Clerk's Office prior to the last election

	or verification from the County Clerk's Office
Possession of Colorado driver's license	Copy of your Colorado driver's license or ID card

Deadline: Submit your petition with all supporting documents by the deadline date published on the myPCC Portal for the intended term. We will not review late petitions, those missing documentation and information, or those without a notarized signature.

Selective Service Registration Requirements

Before enrolling at PCC, male students must truthfully declare their selective service registration status on the Application for Admission. You may not enroll if you provide no information or false information. If your status changes in any way, you must notify the Admissions & Records Office. You may register for Selective Service or obtain proof of registration by using the [website](#). Contact the Admissions Office for further information concerning Selective Service requirements.

ADD PHOTO

Transferring Credits

Transferring Credits to PCC

To transfer credits to PCC from another higher education institution, please ask your previous institution to **mail** your official transcript to this address:

Records Office
Pueblo Community College
900 W. Orman Ave.
Pueblo, CO 81004

**PCC will not accept hand-carried transcripts.

Electronic Transcripts Receipt Process

E-transcripts may be sent to registrar@pueblocc.edu.

Pueblo Community College will accept [electronic transcripts](#).

Approved Mechanisms:

1. eSCRIP-SAFE transcript delivery network.
2. Electronic Certified.pdf Transcripts with a digital signature available through a secure password-protected database.

These transcripts are password protected, provided by the sender and accepted and handled as official documentation.

Transcripts sent via any other method or to any other email address will not be accepted as official documents and will not be used for transfer purposes.

We need to receive your transcripts as soon as possible and within your first term of enrollment at PCC; otherwise, you may have to re-take courses you took at your former institution or satisfy PCC assessment requirements.

We evaluate your transfer credits according to the following guidelines:

- You must be admitted as a Classified student (one with a declared major) before we can evaluate your transfer credit. We evaluate transfer credits based on the requirements of your major.
- You must submit official transcripts, mailed or electronically certified and delivered from your previous institutions, within your first term of enrollment at PCC. We will not accept hand-carried transcripts.
- We accept transfer credits from regionally accredited institutions recommended by the American Association of Collegiate Registrars and Admissions Officers, and as specified by legislated and CCCS articulation agreements.

- We accept a maximum of 80 percent of the semester credits required for a degree, 75 percent for a certificate.
- PCC will only evaluate credit for transfer on courses with a grade earned of C, P, S, or better.
- You must earn at least 15 graded semester credits at PCC in your program area to receive a degree. They cannot include transfer credits or credits earned for prior learning.
- Your instructional department will evaluate your transfer credits to determine whether they meet department requirements for graduation.
- Please note that some courses that are more than 10 years old may not be transferable. The department chair or dean of your program area will determine whether your transfer credits fall within acceptable time limits. Older credits may be evaluated by the appropriate department chair or dean and their decision will be final
- We will accept credits you've earned in any Colorado state system community college, or any local district community/junior college which is in compliance with the State Board Policy on degree standards, as meeting degree or certificate requirements in comparable or equivalent programs at PCC.
- The registrar will determine if PCC can accept credits from qualified degree-granting institutions. In most cases, these will be 100- and 200-level courses. If you wish to transfer 300- or 400-level credits to PCC, the records coordinator, your department chair and/or dean will decide how PCC will apply those credits.
- If you are eligible for veterans' educational benefits, you must submit official transcripts from all colleges and universities previously attended or your benefits could be interrupted.
- If we accept your transfer credits, we will post them to your academic record (transcript) after you enroll at PCC. You may review your results online by logging on to your myPCC Portal account.
- The evaluation of previous college work must be completed prior to filing an Application for Graduation. You may appeal a transfer evaluation by contacting the Records Office.
- If you do not enroll in classes, PCC will only hold your transcripts for one year.
- Transfer credits will be awarded as governed by the Colorado Department of Higher Education and State Board policies and System President Procedures.
- If you change your degree or major, you must contact the records office for a re-evaluation of your transcripts.

Transfer Appeals Process

Consistent with the requirements of the Colorado Department of Higher Education, CCCS Colleges have established a Transfer Appeals Process. Based upon initial transcript evaluation of transfer credits completed, a student may appeal any of the following:

1. A decision regarding the transferability of a specific course(s)
2. A decision regarding the placement of a specific course(s)
3. The college's failure to provide a transcript evaluation within the designated 30-day calendar period

To appeal a transfer evaluation, you should meet with the transcript evaluator and/or the Director of Enrollment Services and Registrar.

Prior Learning Assessment (PLA)

Students may earn college credit for non-college or experiential learning acquired through prior schooling, tests, work, or other life experiences. PLA is not awarded for experiences alone, but for the college-level learning that the student gained through the experiences. Such college-level learning must be comparable to PCC courses and must relate to the student's educational objectives and declared program. PLA credit may be earned through standardized tests, challenge exams, published guides or portfolio assessment. All credit assessed for PLA must meet or exceed "C" level work. Students who intend to transfer to another community college in the state system may have their prior learning credits transferred to that college as long as the credits are applicable to the student's declared certificate/degree program. See [Prior Learning Assessment Credit – Student Information](#) for full details. Go to Pueblo Community College [PLA Credit](#) for college specific information.

Types of Credit

Standardized Tests

Advanced Placement Program (AP)

Students can receive credit through AP Exams completed in high school. Please visit the following [site](#) for a complete list of acceptable AP exams, AP exam cut scores and PCC course equivalencies

College Level Examination Program (CLEP)

The College Level Examination Program (CLEP) is a series of examinations that allows individuals to earn college credit for what they already know, regardless of where they learned it. Please visit the following sites, [Site 1](#) and [Site 2](#), for more information on what tests are available.

International Baccalaureate (IB)

PCC recognizes the International Baccalaureate program and reviews IB credentials on an individual basis. For information, please click on the following [site](#) for special conditions for acceptance.

DANTES Subject Standardized Tests (DSST)

Most DSSTs are recognized by PCC as acceptable exams for college credit. DSSTs may be taken at the PCC Testing Center. Call 719.549.3091 or email test_center@pueblocc.edu for more information.

To receive college credit, students who take any standardized test must request that their scores be sent directly to the PCC Records Office. There is no charge for PCC to evaluate standardized test results for credit.

Challenge Examinations

PCC-approved exams such as objective tests, essays, oral presentations or hands-on demonstrations may be used to evaluate students' competencies in specific courses listed in the PCC Catalog. These comprehensive exams are the equivalent of the final exam of the course challenged and are available at the option and approval of the appropriate Dean. Only one exam for a particular course may be arranged per term. Challenges must be completed prior to registering in the course challenged. The cost for a Challenge Exam is \$45 per credit hour.

Published Guides

ACE-Military

PCC uses the credit recommendations of the American Council on Education (ACE), as published in the [Guide to the Evaluation of Educational Experiences in the Armed Services](#), to evaluate military training and learning experiences.

ACE-Workforce Training

PCC uses the credit recommendations from the ACE Workforce Training as documented on the ACE Transcript. See [National Guide to College Credit for Workforce Training](#) for information.

Non-Accredited Training

PCC used the credit recommendations from The National College Credit Recommendations Service as documented on the NCCRS transcript. Information can be found at the following [site](#).

To receive college credit, students should request that the transcripts be sent directly to the PCC Records Office. There is no charge for PCC to evaluate credit from published guides.

Portfolio of Learning Outcomes

Admitted students who have declared a program of study may petition for credit by developing a portfolio that documents and details learning experiences comparable to those available in PCC courses. A faculty member in the appropriate program area will evaluate the portfolio and determine what, if any, credit will be given. Only one portfolio evaluation for a particular course will be permitted during any one semester. The cost for a portfolio evaluation is \$65 per credit hour.

Graduation Requirements

Students may use PLA Credit to fulfill all degree/certificate graduation requirements except for the mandatory 25 percent residency requirement. For more information on PLA options, students should contact their faculty or academic advisor or the PCC Records Office at 719.549.3017.

Transferring AA or AS Degrees to Other Institutions

Colorado's Statewide Transfer Agreements between public colleges and universities guarantees that when you complete your AA or AS degree – at least 60 approved credit hours of course work carrying a C grade or better in every course – you can [transfer](#) to any baccalaureate liberal arts and sciences major (e.g., English, History, Mathematics) at a Colorado public college or university and graduate after earning an additional 60 credit hours. While you are guaranteed not to have to take more than 60 hours to graduate, a variety of factors will determine whether or not you will receive your bachelor's degree in an additional two years. You must consult with your academic advisor to determine which courses to take at PCC to prepare you for your chosen bachelor's degree.

This agreement does not apply to Business, Elementary Teacher Education or Early Childhood Teacher Education and other Degrees with Designation, as all of these have statewide articulations that have specific lower division requirements. Save time by seeing your transfer advisor at your earliest opportunity for transfer guides.

This AA/AS transfer agreement applies to courses completed at any Colorado community college. Credit earned for prior learning, Advanced Placement, correspondence courses, CLEP and other tested-only credit may not apply. The institution to which you transfer will evaluate these credits according to its own policies. If you disagree with the institution's evaluation of your PCC credits, you may contact PCC to appeal our calculation of your transfer credits.

Transcripts

To order official transcripts, you may either order online through Parchment or print the "Request Official Transcript form" Please use the form for coursework prior to summer 1987 or San Juan Basin Technical College. Please contact your campus Go!Zone to see if transcript pick-up is available. There is a minimum fee of \$3 per transcript.

Unofficial transcripts are available free of charge through the myPCC Portal. Please check your unofficial transcript prior to ordering official transcripts to ensure your grades and/or degree has been posted to your transcripts.

If you owe money to PCC or any other CCCS College, we will not issue your transcript until your debit is cleared.

Financial Aid Office

The PCC Financial Aid Office administers a comprehensive program of grants, scholarships and loans. Grants and loans are based on need. Scholarships are based mainly on academic ability and, in some cases, need. Work-study opportunities are based primarily on need.

To apply for financial aid, complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov. If you have questions about financial aid guidelines and policies, contact the [PCC Financial Aid Office](#) or call 719.549.3020.

GAINFUL EMPLOYMENT INFORMATION

The US Department of Education requires disclosure of information for any financial aid eligible program that "prepares students for [gainful employment](#) in a recognized occupation."

Priority Deadlines for Applications

Complete the FAFSA application as early as possible. Our awards are subject to the availability of funds. We give top priority to full-time students who show exceptional financial need and who submit completed applications by the following dates:

Fall Semester	March 15
Spring and Summer Semesters	November 1

Though we do accept applications later than these dates, we give priority to those who meet these deadlines.

Eligibility for Financial Aid

To be eligible for financial aid, you must

- be a U.S. citizen, national or permanent resident
- have a high school diploma or GED
- be accepted to PCC as a degree-seeking (Classified) student
- be enrolled in an eligible program at least half time (six credit hours) for most Federal and State aid programs and full time (12 or more credit hours) for most scholarships
- submit a complete financial aid file that includes all required supporting documents
 - verification worksheets, tax transcripts from the IRS, W2s, social security cards, selective service registration, copies of high school diploma, or GED, etc.
- make satisfactory progress toward a degree or certificate and be within the regulatory limitations of maximum attempted credits, and
- clearly establish financial need for need-based financial assistance.

You are not eligible for financial aid if you

- are concurrently enrolled in high school, or
- owe a refund on a federal grant, or
- are in default on a federal student loan, or
- are in a certificate program which is less than 16 credit hours, or
- have already earned a bachelor's degree (unless you are applying for student loans).

The Financial Aid Office will make every effort to keep you informed about the status of your application; however, you should contact the office to find out what information we might still need to complete your file.

Types of Awards

Grants

Federal Pell Grant

This is the basic award to which other federal and non-federal sources may be added. The amount of the Pell Grant depends on your financial need, the cost of education, and the amount of time you will be enrolled during the school year. As with all grants, you do not have to pay back a Pell Grant provided you do not withdraw during a semester.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This grant provides additional financial assistance to exceptionally needy undergraduate students who are also Pell Grant recipients.

Colorado Student Grant (CSG)

This grant provides financial assistance to Colorado residents who otherwise would be unable to pursue postsecondary education. Priority for these funds goes to residents of Colorado who are eligible for a Pell Grant.

Work Study

The College Work Study Program (CWSP) provides employment for full- and part-time students for 10 to 20 hours of work per week. Most work study funds go to students who demonstrate financial need, with remaining funds available to employ other students in areas related to their academic and career goals. Funds are provided by the Federal Work Study Program and by the Colorado General Assembly.

Loans

The William D. Ford Federal Direct Loan Program provides low-interest loans to qualified students to help meet educational expenses. Loans are secured from and are insured by the Federal government. If you are a first-time borrower, you must complete Stafford Loan Entrance Counseling to qualify for this loan. Student loans are a supplement to other federal, state, institutional and private student financial aid programs and you must pay them back.

Scholarships

Scholarship funds are available from a variety of sources: the State of Colorado, the PCC Foundation, corporations, businesses, foundations, individuals, civic organizations, service clubs and similar organizations. We award scholarships based on academic ability, special educational interests, talent and, in some cases, need. Each scholarship has its own guidelines for application and selection; contact the PCC Financial Aid Office to obtain applications for the scholarships you might qualify for at the following [site](#).

Return of Federal Title IV Financial Aid Funds

If you withdraw, officially or unofficially, during a semester in which you are receiving federal Title IV Financial Aid funds, you must return a portion of the funds. We use the Return of Title IV Funds Calculation to determine how much you owe. This calculation is based on how much of the semester you complete. If you complete more than 60 percent of the semester, you have earned all of your award and owe nothing to the College. If you complete 60 percent or less of the semester, you must return the unearned funds to the college. You also must pay any institutional charges that result when we return funds to the federal government. Contact the Financial Aid Office for more information.

Financial Aid Warning, Probation and Ineligibility

The Financial Aid Office monitors your academic progress if you are a recipient of federal, state or institutional financial aid. We monitor progress in three areas:

- Grade point average (GPA) – you must attain a minimum cumulative GPA of 2.0.
- Completion rate – you must complete 67 percent of all cumulative attempted credits.
- Maximum time frame – you must complete your degree/certificate by the time you have attempted 150 percent of the credit hours required in your program.

If you do not attain the minimum grade point average or completion rate, we will place you on warning or ineligibility. If you have 0 percent completion within a semester, you will become ineligible. If you are on financial aid warning or probation, you may continue to receive financial aid subject to approval. If you are on financial aid ineligibility, you are no longer eligible for financial aid.

Note: Financial aid warning/probation/ineligibility is different than academic probation/suspension. Please see the Academic Regulations section of this catalog for information about academic probation/suspension.

Contact the [PCC Financial Aid Office](#) for more information.

Other Benefit Programs

Veterans Administration Educational Benefits

With certain exceptions, PCC courses are approved for the training of veterans and eligible dependents. If you plan to use VA educational benefits, contact the Admissions staff in the Go!Zone at the Pueblo Campus or call 719.549.3013 immediately after deciding to attend PCC. You can expect a six- to eight-week VA processing time for your application.

You are responsible for prompt payment of tuition, fees and book costs whether or not your VA educational benefit payments have started.

It is your responsibility to notify the Admissions staff in the Go!Zone of any address and/or enrollment changes such as course adds and drops, change of major, other schools attended and any other information related to your academic standing.

Veterans Attendance and Satisfactory Progress

If you do not attend regularly or make satisfactory, systematic progress toward an educational objective, you will have to repay the VA. If you are placed on academic suspension, the VA will discontinue your benefits for the duration of the suspension.

Western Undergraduate Exchange

The Western Undergraduate Exchange (WUE) is a program allowing students in 14 participating states to enroll in designated two-year institutions at a special, reduced tuition rate applicable only to WUE students. PCC or CCC Online tuition rates are not reduced. Colorado is a WUE participating state. Entry is allowed to approved certificate and degree seeking students. Undeclared students are not WUE eligible. WUE students are not eligible for the College Opportunity Fund (COF) stipend.

Residents of the following states should contact the Admissions Office for further details: Alaska, Arizona, California, Commonwealth of the Northern Marianas Islands, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming.

Tuition and Fees

Calculating the Cost of Tuition: The 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 law establishing the College Opportunity Fund (COF) as a new way for Colorado to provide state financial support to eligible undergraduate students. With the start of fall semester 2005, this money is being set aside in the form of a stipend for each undergraduate student, in an account the student creates by signing up at www.CollegeInColorado.org. The student designates which institutions of higher learning are to receive stipend funds on their behalf. The money is applied to the in-state student's tuition if the student applies for and authorizes the use of the stipend, and it will appear as a credit on the tuition bill. Currently the College Opportunity Fund (COF) stipend is estimated to be worth \$75 per credit hour.

Projected tuition costs for the 2017-2018 academic year*:

Tuition	Total Tuition	Less Estimated COF Stipend	Student Share of Tuition
Resident	\$245.50/credit	\$75/credit	\$170.50/credit
Resident – CCC Online and PCC Online	\$329.95/credit	\$75/credit	\$254.95/credit
Resident – Nursing Courses	\$311.80/credit	\$75/credit	\$236.80/credit
Resident – Dental Hygiene	\$382.00/credit	\$75/credit	\$307.00/credit
Non-Resident	\$595.25/credit	—	\$595.25/credit
Non-Resident – CCC Online and PCC Online	\$381.90/credit	—	\$381.90/credit

BAS Online	Total Tuition	Less Estimated COF Stipend	Student Share of Tuition
Resident	\$378.00/credit	\$75/credit	\$303.00/credit
Non-Resident	\$574.65/credit	----	\$574.65/credit

*These estimated costs are subject to change without prior notice or obligation.

Tuition rates for Armed Forces Members and Their Families

A member of the armed forces who is on active duty for more than 30 days (during enrollment), whose permanent duty station is in Colorado, cannot be charged out-of-state tuition. Even if there is a change in the permanent duty station, as long as the person is continually enrolled they must still be charged in-state tuition (this also applies to their spouse and/or dependent children). Contact the Admissions Office for the [Certification for Military Tuition Status form](#).

Fees

Mandatory Student Fees

The following fees are assessed on a per-credit-hour basis up to a maximum of 12 credit hours:

Parking	\$	1.42
Associated Government		1.67
Student Activities		<u>1.49</u>
Total per credit hour	\$	4.58
Student Center Operations Fee (Pueblo only)		7.08
Recreation Center Fee (Pueblo only)		1.09
Student Life Facility Fee (Pueblo & Mancos only)		<u>7.85</u>
	\$	20.60
Registration fee per semester		13.00
Mandatory Health Clinic Fee (minimum 6 credit hours)		<u>23.99</u>
Total per semester	\$	57.59

Additional information on instructional program fees and course pass thru fees can be found on the PCC [website](#) under the Additional Fees tab.

Miscellaneous Fees*

The following miscellaneous fees will be charged where appropriate:

Additional Parking Permit	\$	1.00
Deferred Payment		5.00 - 20.00
Health Professions (malpractice insurance)		10.00
Return Check Charge		20.00 - 40.00
Student Identification Card		10.00
Student Identification Card (replacement)		10.00
Student Records (per copy in advance)		2.00
Accuplacer Exam (per test session)		10.00

***These estimated costs are subject to change without prior notice or obligation. Additional cost may be incurred as required by program (e.g., background check/drug screen, immunization, program-specific supplies, etc.). Students should check with their program for additional cost information.**

Financial Obligation

When you register for one or more classes, you must pay all of your tuition and fees unless you officially drop your courses within the first 15 percent of the term (by the end of the refund period). If you fail to pay tuition and fees, you might incur collection fees, attorney fees, interest or other costs. If you have a financial obligation to PCC, we will not register you, give you your semester grades, issue your diploma and final transcript or mail your official transcript to other institutions.

Billing

Statements can be obtained anytime through the myPCC Portal.

Methods of Payment

PCC accepts cash, checks and valid third-party payments. You may also pay tuition and fees with Visa, Discover, MasterCard or American Express. Bills may be paid in person or online.

Drop for Non-payment Policy

Students who have not paid their balance in full, set up a payment plan or have financial aid or a third-party tuition/fee deferment may be dropped for nonpayment after close of business on the drop for nonpayment date.

Refunds

All refunds (disbursements) from Financial Aid and other credits will be sent to the refund option selected by student. Each student will need to select a refund preference through Bank Mobile.

PCC may refund 100 percent of your tuition and fees for a particular term if you officially drop during the first 15 percent of that term (by the census date). You can find refund deadlines at any registration station or at the Admissions and Records Office. You must authorize the drop in person by one of the following methods:

- Fill out an official drop form and submit it to the Admissions and Records Office, or
- Go to the [Pueblo Community College website](#) and log in to the myPCC Portal.

We will process your refund according to your selected preference.

Basic Skills Assessment

How We Place You In Courses

We want you to be successful in achieving your educational goals. Therefore, you must have strong skills in reading, writing and/or math to succeed in college-level courses (courses at the 100 or 200 level). These skills are often listed as prerequisites (PRQ) or corequisites (CORQ) for college-level classes.

The PCC Basic Skills Policy is based upon these policies:

- Colorado Department of Higher Education’s Statewide remedial education [policy](#).
- Colorado Community College System [Developmental Education Taskforce’s](#) 2013 redesign recommendations.
- Colorado Community College State Board policy [BP 9-41](#).

Students attending PCC must adhere to the Basic Skills Policy and may need to take a placement test in mathematics, reading and writing before their first semester of enrollment. PCC uses this test to place students in appropriate college or basic skills courses. The test is not timed and is not pass/fail; it simply helps us establish which courses will be most appropriate for you.

For the most up-to-date information about the Accuplacer Test, as well as prep materials, placement scores and fees, please visit the Testing Center’s [website](#).

Important information regarding your test scores:

If you test into any basic skills courses, you must complete those courses within your first 30 credit hours of enrollment and meet with an academic advisor. If you do not register for basic skills courses within your first 30 hours, you will not be able to register for more classes until you meet with an academic advisor.

- If you have to take the Accuplacer, PCC requires that the test be completed before you meet with an academic advisor. All first-time undergraduate students must take the basic skills test or be exempt from assessment if they are seeking a degree (or are converting to degree-seeking status) or graduated from high school during the previous academic year.
- For certificate students, basic skills requirements will be identified in the college catalog.
- Students whose assessment scores do not meet college-level standards will need to meet with an advisor prior to registering in courses for the first time.
- Students who successfully complete the highest level of basic skills classes or college-level courses in math or English at a regionally accredited college or university are exempt from assessment in these subject areas only. Successful completion means a satisfactory “S” or a letter grade of “C” or better.
- High school students are exempt from assessment except when the scores are required as prerequisites for PCC or through specific agreements with districts/high schools.

- Students who have taken the ACT or SAT within the last five years may be exempt from the Accuplacer if their scores provide evidence of college readiness. Reading and English scores are valid for five years; math scores are valid for two years. Students should contact an academic advisor for required scores.



How to Take the Accuplacer

1. Students are encourage to schedule an appointment to take the Accuplacer. To make an appointment, contact your local campus Testing Center:

Location	Address	Phone Number
Pueblo Campus	900 W. Orman Ave., AB 134	719.549.3091
Fremont Campus	51320 W. Hwy. 50, L101	719.296.6116
Durango Campus	701 Camino del Rio, Suite 201	970.385.2001
Mancos Campus	33057 Hwy. 160	970.564.6201

- The cost of the Accuplacer is a \$10 no matter how many sections you are being tested on.
- Testing is permitted twice a semester. If you wish to take the Accuplacer more than twice, you must seek written permission from the Chief Academic Officer or designee and show proof of progress in an approved tutorial program.

How to Prepare for the Accuplacer

 <p>What is PrepSTEP (formerly Learning Express Library)? PrepSTEP is a computerized comprehensive, interactive online learning program of practice tests and tutorial course series.</p> <p>How does PrepSTEP work? PrepSTEP assesses students' skill levels through a series of pre-tests to determine areas in which they are deficient. The system then prescribes exam study strategies, practice questions and post-test assessments. Students get immediate scoring, complete answer explanations, and an individualized analysis of their results.</p> <p>To access this system, simply click on the link below. First time users should follow instructions on creating an account. If you need help, please contact your local PCC campus for assistance. At the Pueblo campus, you may stop by the Learning Center (AB042) or call 719-549-3393.</p> <p style="text-align: center;"><u>PrepSTEP</u> http://www.pueblocc.edu/PrepSTEP/</p>	 <p>Practice and Get Prepared for Test Day The Official Web-Based Study App</p> <p>The ACCUPLACER web-based study app features practice tests in each test subject. It is accessible from most devices with internet access, and will help you become familiar with the content and format of the ACCUPLACER test questions.</p> <ul style="list-style-type: none"> • “Learn as you go” tests provide you with explanation of the correct or incorrect responses. • Sample tests are similar to the real thing, so you’ll know ahead of time what your experience will be like on test day. • You can save your work at any time, and come back when it’s convenient for you. • You can review your score history to see what you’re already doing well and what skills you should focus on improving. <p style="text-align: center;"><u>ACCUPLACER STUDY GUIDES</u> https://accuplacer.collegeboard.org/student/practice</p>
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iGRAD Program

Pueblo Community College's iGrad (I Gained Relevant Academic Development) program helps students develop basic skills in reading, English and mathematics to succeed in college-level courses. Students whose skills are below the levels required for successful performance in college-level courses may be able to complete their basic skills requirements in one semester. PCC's iGrad program provides the opportunity to fulfill the basic skills requirement by offering courses that are paired with college-level courses for an enhanced and supportive learning experience.

PCC will provide written notice to all students whose Accuplacer scores do not meet the basic skills standards. This notice will include the state institutions offering basic skills courses, the approximate course cost and the relative availability of the courses, including any online course.

The official results of the assessment tests are kept by the PCC Testing Center for a minimum of five years. Assessment results (Accuplacer, ACT, SAT and others) are valid for five years. For information about Accuplacer scores, refer to the Course Descriptions section of this catalog.

Please speak with an academic advisor if you have any questions about the basic skills assessment test.

Course Placement Based on Assessment Test Scores or Exemption

ENGLISH EXEMPTION

- English 11 or higher English course within 2 years of completion with a grade of A/B & high school GPA of 3.0

CCR 092

Accuplacer - Sentence Skills <50 placement

CCR 094 or ENG 120

Accuplacer - Sentence Skills 70-94 placement

ENG 121 – English Composition I - GT

- Accuplacer - Sentence Skills ≥ 95 placement
- ACT - English 18 placement or SAT - Writing 460 placement
- AP - Language and Composition 3 exemption or IB-HL4 exemption

MATH EXEMPTION

- **Placement in Career/Technical Math (MAT 107, MAT 103, MAT 108 or MAT 112)**
 - 3.0 un-weighted high school GPA & A or B in Geometry & course within 18 months
- **Placement in Career/Technical Math or Qualitative Math (MAT 120 or MAT 135)**
 - 3.0 un-weighted high school GPA & A or B in Algebra II & course within 18 months
- **Placement in Math 121**
 - 3.0 un-weighted high school GPA & A or B in Pre-calculus & course within 18 months

MAT 050 – Quantitative Math

- Accuplacer – Arithmetic ≥ 40 **OR** 30-60 Elementary Algebra placement

MAT 055 – Qualitative Math

- Accuplacer - Elementary Algebra 60-84 placement

MAT 107 - Career Math or MAT 103 - Math for Clinical Calculations or MAT 108 - Technical Math or MAT 112 - Financial Math

- Accuplacer - Elementary Algebra ≥ 61 placement
- ACT - Math 19 placement or SAT - Math 500 placement

MAT 120 – Math for Liberal Arts Majors - GT

- Accuplacer - Elementary Algebra ≥ 61 placement
- ACT - Math 19 placement or SAT - Math 500 placement
- IB - HL4 exemption

MAT 135 – Introduction to Statistics - GT

- Accuplacer - Elementary Algebra ≥ 61 placement
- ACT - Math 21 placement or SAT - Math 550 placement
- AP - 4 or 5 exemption

MAT 121 – College Algebra - GT

- Accuplacer - Elementary Algebra ≥ 85 placement
- ACT - Math 23 placement or SAT - Math 570 placement
- IB - HL4 exemption

MAT 122 – College Trigonometry - GT

- Accuplacer - CLM ≥ 63 placement
- ACT – Math 24 placement or SAT - Math 590 placement

MAT 125 – Survey of Calculus - GT

- Accuplacer - CLM ≥ 63 placement
- ACT - Math 25 placement or SAT - Math 590 placement
- AP - 4 or 5 exemption

MAT 155/56 – Integrated Math I & II

- Accuplacer - Elementary Algebra ≥ 61 placement
- ACT - Math 19 placement or SAT - Math 500 placement

MAT 201 – Calculus I - GT

- Accuplacer - CLM ≥ 103 placement
- ACT - Math 28 placement or SAT - Math 630 placement

ADD PHOTO

Advising and Registration

Academic Advising

Academic Advising for New and Re-admitted Students

To truly succeed at PCC, all new or readmitted students enrolling in more than six credits must take an Accuplacer test (or have ACT/SAT scores on file with the Testing Center), attend a Getting Started Session and meet with an academic advisor before registering for classes. Here is what you can expect an advisor to do during a session:

- Review your academic program and test scores
- Assist you in developing an educational pathway plan
- Help you register for first-semester classes
- Assign a faculty advisor for guidance in future semesters
- Discuss and understand academic goals and how they relate to your career interests
- Help you transfer to a four-year college or university
- Refer you to the career center for career exploration, clarification and development

The Center for Academic Advising is also responsible for early advising programs, early grade check follow-up, attendance, working with financial aid suspension/probation students, basic skills advising, advising health professions students (until they transition to a health program), change of majors and advisor reassignments.

Advising for Continuing Students

Continuing students (generally students who have completed 15 or more credits) will have an assigned faculty advisor in their major who is familiar with that program's requirements. The Center for Academic Advising will provide the student his or her faculty advisor contact information. Students who want to change their faculty advisor must go to the Center for Academic Advising for approval. Advising is an ongoing process and students should consult regularly with their faculty advisor before registering for courses each semester. On the Fremont Campus, please meet with an academic advisor in the Go!Zone.

Undeclared Students

An undeclared student is one who has not declared a major and is not working toward a certificate or degree at PCC. Undeclared students generally are not eligible for financial aid. Students who are not sure what major best suits their goals will meet with a career counselor and be advised through the Center for Academic Advising until a major is selected. On the Fremont Campus, please meet with an academic advisor in the Go!Zone.

Registration

Registering for Courses

Once you are admitted to PCC and have met with an academic advisor, you may register for classes on campus or online through the myPCC Portal. (See registration information on the Portal.) You may not register if you owe money to PCC or any other Colorado Community College System school, are a male over the age of 18 not registered with the Selective Service, or if you are on academic suspension.

Required Signatures for:

Entry into closed classes – instructor and department chair

Unmet prerequisites – department chair

Late registration – instructor and department chair

Class time conflicts – both instructors

Registration in excess of 18 credit hours – division dean

Class Schedule Changes and Course Registration

You should secure your advisor's approval for all schedule changes.

The responsibility for changing your schedule is yours; no instructor or staff member can do it for you. To change your schedule, you must follow college regulations and obtain the appropriate signatures. You can change your schedule only during the schedule adjustment periods each semester.

If you change your schedule after submitting your graduation paperwork, you must notify your advisor so an updated graduation planning sheet can be submitted. If you do not notify your advisor of such changes, you may not be able to graduate on schedule.

Adding Courses

You may add regular courses only during the period specified on the myPCC Portal. You may add mini-courses or special-length courses up to the day the class starts. Registration after the census date is not permitted due to Colorado Opportunity Fund restrictions.

Dropping Courses

If you drop a regular course during the refund period listed on the Portal, you do not have to pay for the course. The dropped course will not appear on your permanent record. You may drop short courses, mini-courses or special-length courses without penalty before 15 percent of the course duration has passed.

You may add and drop courses in one of two ways:

- Visit any campus registration station. To add or drop a class in person, you must submit a signed schedule adjustment form.
- Log on to the myPCC Portal on PCC's [website](#).

For add and drop deadlines for special-length courses, contact any registration station or the Admissions and Records offices, or refer to the class schedule/bill you received when you registered.

A student will be identified as a “no-show” and dropped from a course if he or she has not attended any class sessions between the start of the course and the census date or attended but did not participate in any academically related activity prior to the census. (For online courses, simply logging in is not “academically related activity.”) Students will receive a full refund.

Students who encounter unusual or extenuating circumstances may request a late drop after census. Extenuating circumstances may be military activation or TDY orders, health reasons, job changes and/or a death in the family, to name a few. Normally, in these circumstances a tuition appeal process is started. The student completes a form and submits it to the records clerk with documentation of the extenuating circumstances. The tuition appeals committee meets monthly to review the student appeals and has the authority to approve or deny the appeal. Students may re-appeal a denial with the registrar, but only within a calendar year of the term in question. The registrar, in consultation with the department chair and dean, may also approve late drops past census due to administrative errors, student health or hospitalization situations with documentation.

For a statement about PCC’s refund policy, see the Tuition and Fees section of the catalog or the current PCC Schedule of Classes.

Withdrawal Policy

PCC has instituted the following policy on class withdrawals: It is the **student’s** responsibility to initiate all withdrawals – from a course or the college – after meeting with their instructor. After that meeting, you should contact the Financial Aid office and begin the withdrawal process electronically or go to the college Go!Zone for assistance.

Withdrawing from Courses

Following the end of the refund period, you may withdraw from any or all of your courses and receive a grade of “W” if you withdraw before 80 percent of the course duration has passed. You may not withdraw from a course during the last 20 percent of the course duration. When you withdraw from a course, you must still pay tuition and fees. It is your responsibility to withdraw yourself from courses; instructors will not withdraw you.

- To withdraw from an individual course you should meet with the instructor and you must complete a course withdrawal form, which you can obtain from an advisor, instructor, Fremont Go!Zone or the Admissions and Records offices. You may also withdraw online through the myPCC Portal.
- To withdraw from all courses, you must initiate the official withdrawal form in the Go!Zone Enrollment Office. Telephone requests cannot be honored.
- In emergency cases, write to the Records Office by certified mail to Pueblo Community College, 900 W. Orman Ave., Pueblo, CO 81004-1499, indicating the reason for withdrawal and requesting this matter be completed by mail. You may also email the [Registrar’s inbox](#) from your college-issued student email account to request a withdrawal.

Military Withdrawal

If you are a current member of the armed forces and your academic work is interrupted by TDY or other military obligations, we will make every effort to accommodate you. When you present valid military orders to the Records Office, you may choose one of the following options:

- Challenge a course by taking the final examination any time after midterm.
- Receive an incomplete grade for the term. Please see the Incomplete Grades section of the catalog.
- Receive a refund of tuition and fees (if you select this option, you must contact the Financial Aid Office prior to departure).

Students who are activated, voluntarily or involuntarily, are eligible to be readmitted to PCC with the same academic status and program as when they last attended. This applies to active duty in the armed forces, including the National Guard or Reserve, for a period of more than 30 days under a call or order to active duty of more than 30 days.

Degree requirements in effect at the time of each service member's enrollment will remain in effect for a period of at least one year beyond the program's standard length, provided the service member is in good academic standing and has been continuously enrolled or received an approved academic leave of absence. Adjustments to degree requirements may be made as a result of formal changes to academic policy determined by the institution or department.

In instances when courses or programs are no longer available or changes have been mandated by a state or accrediting body, the institution will work with affected service members to identify substitutions that would not hinder the student from graduating in a timely manner.

Course Cancellation for Low Enrollment

PCC may cancel or alter programs or course offerings when enrollments are too low. In such cases, we will make every effort to notify you as soon as possible to offer course alternatives.

Course Load

Normal course load is defined as follows:

- Full-length semester – 12-15 credits
- Eight-week term – 6 credits

You must get written permission from your dean to register for an overload (more than 18 credits). To be eligible to take an overload, you must have a 3.000 cumulative grade point average unless admitted into a program with defined GPA and course load requirements.

Course Prerequisites and Corequisites (also known as Concurrent Prerequisites)

PCC has two kinds of enforceable entry requirements for particular courses:

- Prerequisites – Prerequisites are requirements that must be met before you can enroll in a certain course.
- Corequisites – These are classes that should be taken at the same time. In most cases, you can register for one of the courses if you have already successfully completed the corequisite.

Course Numbering

Courses are numbered to indicate level of instruction. Freshman level courses are in the 100s and sophomore level courses are in the 200s. Courses numbered 300-400 level apply to BAS programs and students may not enroll without the department chair's permission.

ADD PHOTO

Academic Regulations

Academic Integrity and Behavioral Expectations

PCC expects students to adhere to standards of conduct that promote academic and personal integrity, civility and cooperation. The College Student Code of Conduct is found in the PCC Student Handbook. PCC expects that you have read and will adhere to PCC regulations, comply with the laws of the local community, and take responsibility for your conduct.

PCC is committed to providing you a superior educational experience. Because academic integrity is a critical component of this experience, we expect you to maintain the highest standards of integrity while you are a student here. Academic integrity is defined by the International Center for Academic integrity as the adherence to five fundamental values – honesty, trust, fairness, respect and responsibility. PCC recognizes that it takes courage to challenge others and to live by these values.

Failure to follow the standards of academic integrity will result in acts of academic misconduct, which are defined as:

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 of academic behavior. Students who engage in any type of academic misconduct are subject to both academic consequences as determined by the instructor and to disciplinary action as outlined in the PCC Student Handbook.

No-show/Drop/Withdrawal Definitions and Effects

	Definition	Initiated by	Is the student charged?	Does this show on Transcript?	Effect on financial aid	Effect on GPA
No Show	Students will be dropped as a no-show if they do not attend any class sessions or submit any substantial work between the start of the course and the census date. Students should be reported as a no-show on or before the census date for the course.	Faculty and Instructors	No	No	If a student is not dropped as a no-show on or before the census date for a course and is dropped as a no-show at a later time, the student could receive a financial aid disbursement for which they are not eligible. When	None

					late drops occur, a student's financial aid must be adjusted and the error could result in the student owing thousands of dollars to PCC.	
Drop	Students can drop some or all of their courses prior to the census date for the course. Special length courses have different census dates. Please check the portal on the faculty tab and Important Dates	Student	No	No	Same effect as a No show	None
Withdrawal	A student may withdraw from any or all of their courses and receive a grade of "W". They must withdraw by the last day to withdraw of their course. Special length courses have different withdrawal dates. Please check the portal on the faculty tab and Important Dates	Student	Yes	Yes, as a "W"	Students are held financially liable for the withdrawn course. Does count as credits attempted; financial aid does cover the cost of a withdrawn course	None Does count as credits attempted

*Students who stop attending class and do not withdraw themselves will receive the grade that they earned. If the student receives a failing grade, the faculty/instructor must report the last date of attendance when entering the grade.

Drop for no-show

Students will be dropped as a no-show if they do not attend any class sessions **or** attend once but do not complete any academically related activity between the start of the course and the census date (see pages 64 - 65 of this catalog).

- Students should be reported as a no-show on or before the census date for the course.

Withdrawal

A student may withdraw from any or all of their courses and receive a grade of “W” (see pages 60 and 65 of this catalog). Students are held financially liable for the courses from which they withdraw, and the course withdrawal is recorded on their transcripts. It is now the student’s responsibility to withdraw themselves from their courses – instructors will no longer withdraw students due to poor attendance; however, speak with the instructor before withdrawing from any class.

Drop

Students can drop some or all of their courses prior to the census date for the course. If a student drops a course prior to its census date, the student is not charged for the course and the course does not appear on their transcripts. Consult with the instructor before withdrawing from any class.

If students stop attending their courses and do not withdrawal themselves, instructors should assign the student the grade they earned. If a student receives a failing grade, the instructor needs to report the last date of attendance when entering the grade. A student should never be assigned a failing grade if they failed to attend a course and should have been dropped as a no-show. **Students cannot receive financial aid for courses where they have not established attendance.**

Impacts to student’s financial aid

- If a student is not dropped as a no-show on or before the census date for a course and is dropped as a no show at a later time, the student could receive a financial aid disbursement they are not eligible for. When late drops occur, a student’s financial aid must be adjusted and the error could result in the student owing thousands of dollars to PCC.

If inaccurate last dates of attendance are reported when a student fails a course and a Return of Title IV funds calculation must be performed for the student, the inaccurate last date of attendance will impact how much money the college is required to return. The calculation is based on how much financial aid the student has “earned” to ensure that students are awarded the appropriate amount of aid based on their last date of attendance.

Grading System

At the end of each semester, a student may access their grades or order a transcript [online](#).

Letter Grades

At PCC, grades are expressed in letters which are equated to points used in calculating the cumulative grade point average. To calculate a grade point average (GPA), divide the total number of quality points by the total number of credit hours (the points associated with A, B, C, D and F grades). An "S" grade indicates that the quality of student work in the course is equivalent to "C" or better." An "S" grade will count in attempted and earned hours, but will not carry any quality points and will not be included in the calculation of GPA. "S" grades may not be applied to any course in the Colorado Guaranteed Transfer Program for General Education (GT Pathways). With the exception of Physical Education courses, no course taken for an S/U grade may be applied to the AA or AS degree, and in that case, no more than two (2) credits may be applied to the AA or AS degree.

A "U" grade indicates that the quality of student work in the course is equivalent to "D or less." A "U" grade may not be applied to any degree or certificate requirement.

Letter Grade	Quality Points
A (Excellent or Superior)	4
B (Good)	3
C (Average)	2
D (Deficient)	1
F (Failure)	0
S (Satisfactory)	0
U (Unsatisfactory)	0
S/A, S/B or S/C - Satisfactory Grade designation used only for Developmental Courses	
U/D or U/F - Unsatisfactory Grade designation used only for Developmental Courses	
I (Incomplete) - designation used to show that the coursework is not complete	
AU - Grade designation used for courses that are audited	
W - Designation used when a student withdraws from a class	

S/A, S/B, S/C

Satisfactory grades are assigned only in developmental courses. These will not be calculated for the grade point average but the credits earned in developmental courses will count toward the earned and attempted credits. The grades received in developmental courses will not be used in calculating academic honors like the President's List, Vice President's List and Dean's List.

U/D, U/F

Unsatisfactory grades are assigned only in developmental courses. These will not be calculated for the grade point average but the credits earned in developmental courses will count toward earned and attempted credits. The grades received in developmental courses will not be used in calculating academic honors like the President's List, Vice President's List and the Dean's list.

Incomplete Grades

A grade of Incomplete (“I”) is a temporary grade in a regular course. It indicates the following:

- Due to circumstances beyond the student’s control, you have not completed all course requirements but you have completed at least 75 percent of the coursework.
- You have a satisfactory record (“C” or better) in the work you have completed.
- You agree to complete all requirements for removing the incomplete grade, according to the description of requirements on the Incomplete Grade Agreement Form, within the next full-length semester after the class is offered (summer excluded).
- If you fail to complete the course work, a grade of “F” will be automatically posted to your transcript at the end of the next full-length semester.

It is your responsibility to initiate the request for an “I” grade with your instructor. If circumstances beyond your control prevent you from completing any coursework by the end of the term, you must immediately inform your instructor of those circumstances. Your instructor will determine whether you should be awarded additional time beyond the end of the semester to complete your coursework. If you and your instructor cannot reach a mutual agreement concerning an “I,” contact your department chair and then, if no agreement is reached, the instructional dean.

Before the instructor can assign an “I,” the following conditions must be met:

1. You must present to your instructor the documentation of circumstances justifying an “I.”
2. You and your instructor must complete and sign an Incomplete Grade Agreement provided by your instructor. (The department chair will send you a copy of the Incomplete Grade Agreement.)
3. Your instructor must record an “I” grade on the final grade roster at the end of the semester. If you receive an “I,” do not re-register for the course and do not pay additional tuition and fees. Instead, make arrangements with your instructor to complete the requirements of the class.

If you are in the military or emergency management and are required to go on temporary duty status before you complete 75 percent of a course, contact your instructor to arrange special consideration for an “I” grade. For special consideration, you must provide documentation of your official temporary duty orders. Your instructional dean must approve the special consideration.

Audit Grade

Please see Part-time/Full-time/Auditor Status in the Applying for Admissions section of this catalog.

Grade Changes

Once a final grade is entered, it cannot be changed unless your instructor completes a Grade Change Form and has it signed by the department chair.

It is your responsibility to request a grade change from your instructor if you believe one is justified. Normally, we process grade changes during the following term. After one calendar year, the college will not approve a change of grade. "AU" grades may not be changed.

Final Examinations

Final examinations must be taken during a regularly scheduled class period in the last week of class unless approved by the appropriate dean.

Course Repeats

All college-level courses may be repeated, with the following limitations:

The following guideline applies to all students taking for-credit courses.

- Students will be limited in the number of times that they can take the same course.
- Certain courses are exempt from the repeat course procedure due to the nature/offering of the course.
- If a student has taken a course and attempts to register for the course a second time, the student will receive an automated notification of possible financial aid implications, available support services and how to access those services.
- If a student has taken a course twice and attempts to register for the course a third time, the student will not be able to register for that particular course until an action plan is created and approval granted by the college-appointed advisor. Please note that the student is able to register for other courses without needing an action plan or approval as per college rules and regulations.
- If the college advisor does not feel that the registration is warranted, the student may appeal through the college's designated appeal policy.
- If a student has taken a course three times and wants to register for the course a fourth time, the student must appeal through the college's designated appeal policy.

Each registration for the course and each grade received will be listed on the transcript. On the transcript a notation will follow the course, indicating that the course was repeated and designating whether it will be included in the GPA. The highest grade will be used in the GPA calculation. There will be no limitations on course grades that are eligible for repeat. All credit hours earned for initial and repeated courses will be deducted from a student's remaining COF stipend-eligible hours.

In the event that the same grade is earned two or more times for a repeated course, the most recent instance of the duplicate grade will be included in the term and cumulative GPA. All other duplicate grades will be excluded from the term and cumulative GPA.

Repeated courses may be applied only one time to a certificate or degree, except for variable credit courses and designated courses that may be repeated for professional or personal development. Developmental courses are eligible to be repeated. All developmental courses will appear on the transcript.

For financial aid purposes, students may take course once and repeat it once but may not receive aid for subsequent repeats.

Academic Probation & Suspension

PCC wants you to succeed and encourages you to make responsible academic choices. Therefore, your course load will be appropriately limited as defined in the course load policy (found in the Advising and Registration section of this catalog). In addition, you must maintain at least a 2.000 Cumulative Grade Point Average (CGPA) to remain in good standing. **A student's academic standing at one college will impact academic standing at another CCCS college.**

Academic Standings:

Initial Standing

Student has attempted **fewer** than 9 cumulative credit hours with a CGPA => 2.000 for all classes attempted.

Good Standing

Student has attempted **at least** 9 cumulative credit hours and has a CGPA => 2.000 for all classes attempted.

If your CGPA drops below a 2.000, PCC will place you in one of the following categories to encourage you to improve:

Academic Alert – You have a CGPA lower than 2.000 after attempting 9 credit hours or fewer. You may continue to enroll in classes after you meet with your academic advisor to discuss a plan for academic improvement.

Academic Probation – You have a CGPA lower than 2.000 after completing 9 or more credits in residence at PCC. You may continue to enroll in classes after you meet with your academic advisor to discuss a plan for academic improvement and provided you earn higher than a 2.000 Term GPA (TGPA) in the next full semester.

Continuing Academic Probation – You have a CGPA lower than 2.000 for all courses completed in residence and the last term GPA is 2.000 or higher.

Academic Suspension

If a student on academic probation earns a TGPA of less than 2.000 for all classes attempted, the student will be suspended and will not be allowed to enroll at any CCCS college for the next term, excluding summer term (as summer term may not be used as a “suspension term”).

Suspension Rules

- Summer term may **not** be used as a “suspension term.”
- Summer term may be used to improve the GPA. If a student wishes to enroll for summer term after being suspended, the student will need to follow his or her home institution's process.
- Initial suspension is for one term, excluding summer term.
- A second suspension is for two terms, excluding summer term.

- If a student who has served the suspension time for initial suspension or second suspension wishes to return, he or she will be allowed to re-enroll only after meeting with an academic advisor at the CCCS college the student wishes to attend. The student will be placed on academic probation.
- A third suspension is for two full years or four academic terms, excluding summers.
- If a student who has served the third suspension time of two years wishes to return, the student must meet with an advisor from the CCCS college the student wishes to attend in order to get the suspension hold removed.

Note: Academic probation/suspension is different from financial aid warning/probation/ineligibility. Please see the Financial Aid section of this catalog for information about that topic.

Academic Appeal

You may appeal an academic decision only if you believe it was based on illegal discrimination or arbitrary and capricious actions. For more information about illegal discrimination, refer to the Grievance Process in the PCC Student Handbook, which you can find [online](#) or in hard-copy form in the Dean of Student Success Office. For information about arbitrary and capricious actions, contact the Dean of Student Success Office.

Credit Completion Progress

Recognizing the value of credit completion for all students with regard to retention, transfer and credential attainment, PCC has established the following practice and procedures for measuring and notifying students of their credit completion progress. This procedure is intended to be informational and helpful but also establishes clear standards of credit completion progress that must be met and maintained in order to be a successful student at PCC.

Credit Completion Progress:

- All credit bearing classes (developmental and college level) will be used to calculate the percentage of attempted credits passed. This includes summer term courses.
- Only courses taken in residence will be used for this calculation. “In residence” means taken at PCC. Courses taken elsewhere and transferred in do not apply. The credit completion rate for this procedure will not necessarily match those used for financial aid purposes or athletic eligibility.
- Grades considered to be passing when computing the percentage of attempted credits passed are as follows: A, B, C, D, S/A, S/B, S/C and S.
- Grades considered to be failing when computing the percentage of attempted credits passed are as follows: I, F, U/D, U/F, W and AW.
- Course Completion Rate is calculated by dividing the total attempted credits by the number of credits successfully completed as defined above.

Practice Standards:

Initial Standing – Student has attempted fewer than nine (9) cumulative credit hours will not be assessed for credit completion.

Good Standing – Student has attempted at least nine (9) cumulative credit hours and has a cumulative course completion rate of at least 50 percent.

Warning 1 – Student has attempted at least nine (9) cumulative credit hours and has a cumulative course completion rate of less than 50 percent for the first time.

Warning 2 – Student has attempted at least nine (9) cumulative credit hours and has a cumulative course completion rate of less than 50 percent for the second time.

Warning (Continued) – If a student on Credit Completion Probation passes 50 percent or more of his or her attempted term credits but fails to raise their cumulative completion rate to 50 percent, they will be allowed to continue the next term but will remain on Credit Completion Probation.

Warning 3 – Student has attempted **at least** nine (9) cumulative credit hours and has a cumulative course completion rate of less than 50 percent for the third time.

Warning Rules:

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

Academic Renewal

Academic Renewal is a program through which PCC can exclude previously earned “below average” grades from your cumulative GPA. Through this program, you have another chance to succeed without prior performance holding you back. You must meet the following six (6) conditions for Academic Renewal:

- A maximum of 30 hours can be excluded from the GPA.
- Courses and grades approved for Academic Renewal remain on the transcript but are excluded from the GPA calculations.
- Academic Renewal applies to “D” and “F” grades only.
- In order to apply for Academic Renewal, students cannot have been enrolled at PCC for at least two (2) calendar years from the last term being considered for Academic Renewal.
- Students must be enrolled and have completed at least six (6) hours with a 2.000 term GPA to be awarded Academic Renewal. For a Reverse Transfer Degree only, the student may fulfill this requirement by demonstrating enrollment in at least six (6) credit hours with a 2.0 term GPA during last semester of attendance at the four-year institution.
- Students can apply for Academic Renewal only once.
- The decision is not reversible.

myPCC eLearning

Our myPCC eLearning courses are either fully online or split between in-class and online, depending on the class. These courses allow you to use a computer at a place and time convenient for you to access course content, participate in threaded discussions, and respond to assignments posted online. In some cases, class meetings are conducted online, as well. Your instructor may post examinations online or ask that you take them at the school. PCC's online and hybrid courses are developed and taught by faculty to ensure that students have the information, academic experiences and instructional time necessary to meet course objectives.

PCC uses existing academic structures in the development of distance education courses and curricula. The college follows the Colorado state-mandated common course descriptions, competencies and outlines for any course offered, regardless of the method of delivery. An online course syllabus reflects the content and learning outcomes of the same face-to-face course. For every hour of credit, students must engage in a minimum of 12.5 hours of instructional time (15 week semester = 50 minutes per week, per credit). Students should have a computer with an Internet connection at home. However, all PCC campuses provide access to computers at various times (check your campus for lab days and times). Please refer to the catalog for information on prerequisites. Contact the course instructor or refer to the course syllabus for course requirements.

myPCC eLearning supports two options for online course delivery:

- Online courses (Internet based)
- Hybrid courses

Online Courses

1. [PCC Online](#) courses are developed and taught by PCC instructors. Any requirements for face-to-face meetings for online classes are limited to orientations, internships, specialized laboratory work, proficiency check-offs or final industry certifications. All coursework is done via the Internet.
2. **Colorado Community Colleges Online** ([CCCOOnline](#)) is a shared educational resource of the Colorado Community College System. These courses are taught by instructors of the Colorado Community College System. All coursework is done via the Internet.

Hybrid Courses

Hybrid courses are a combination of online and classroom instruction. In a hybrid course, a portion of the seat time is spent in the classroom and the remainder of the class is conducted online.

Alternative Methods of Instruction

Independent Study, Cooperative Experience, Internship and Occupational Experience

Some PCC programs offer independent study, cooperative experience (COOP), internship or occupational experience courses. Internship and occupational experience courses are usually offered off campus; however, these courses maintain the same standards and provide the same quality of education as courses taken on campus.

Independent study, COOP, internship and occupational experience courses must meet the following conditions:

1. The courses form part of an approved curriculum which is required for graduation.
2. The assigned credit value and contact time in class are in compliance with state guidelines and are the same as on-campus courses.
3. The courses are graded with the same criteria used for on-campus courses.
4. The courses have appropriate assignments with an outlined course of study.
5. While student supervision may be conducted by job-site officials, the course of study is supervised and controlled by PCC and not by those officials.
6. The course requires that there will be regular communication between the student and instructor.

Contact an academic advisor if you are interested in this form of instruction.

Graduation Requirements

General Graduation Requirements

Associate Degree Requirements

All candidates for Associate degrees must meet the following requirements:

- Complete a minimum of 60 semester hours of credit
- Complete all program requirements for the Associate degree
- Satisfactorily complete a minimum of 15 graded credits at PCC
- Online courses with registrations through the home college will be included in residency hours
- Complete all major and degree-related courses with a grade of “C” or better
- Earn a cumulative grade point average of 2.000
- Be classified as a degree-seeking student
- **Your diploma and final transcript will not be issued until all PCC financial obligations are met**

Certificate Requirements

All candidates for certificates must meet the following requirements:

- At least 25 percent of credits must be completed in residence
- Complete all major and certificate-related courses with a grade of “C” or better
- Earn a GPA of 2.000 or higher for all certificate courses
- Be classified as a certificate-seeking student
- **Your diploma and final transcript will not be issued until all PCC financial obligations are met.**

Multiple Academic Degrees

To earn multiple academic degrees, Associate of Arts, Associate of Science or Associate of General Studies at PCC, a student must complete a minimum of an additional 15 credits of coursework which have not been applied to any previously awarded degree. The additional coursework for each successive degree must be above and beyond the original 60 credits required for the first academic degree. These 15 credit hours must all apply toward the additional degree and must be completed through PCC. This includes the degrees with designation.

Graduation Honors

Graduation honors are awarded to students who complete the requirements for an Associate Degree and earn a 3.5 or better cumulative grade point average. Only college-level courses completed at the institution will be included in the GPA calculation. Students must earn at least 15 graded credits at PCC. The three (3) levels of recognition are defined as follows and will be posted on the student’s transcript:

- Summa cum laude (“with highest honor”) 4.00 cumulative GPA
- Magna cum laude (“with great honor”) 3.750 to 3.999 cumulative GPA
- Cum laude (“with honor”) 3.500 to 3.749 cumulative GPA

Honors recognition at the commencement ceremony is based on the GPA through the prior **fall semester**.

Academic Recognition

If you are enrolled in 12 or more graded credit hours and earn a term grade point average of 3.500 or higher, you will be placed on one of the following lists. Graded credits are those classes set-up with the A-F grade mode. Classes that are graded with Satisfactory/Unsatisfactory grade mode are not counted in the 12 or more graded credits requirement. Selection for this honor will be recorded on your permanent transcript.

- President's List 4.000 Term GPA
- Vice President's List 3.750 to 3.999 Term GPA
- Dean's List 3.500 to 3.749 Term GPA

Preparing for Graduation

To be considered a candidate for graduation, you must complete the following steps no later than the end-of-drop/census date for the semester you plan to graduate. Dates are posted on the myPCC Portal.

- Verify that your major and your option or area of concentration are listed correctly as the Current Academic Program on your transcript. If it is not correct, you must complete a Change of Major form available on the myPCC Portal.
- Verify that transfer and prior learning credit have been posted on your transcript.
- Verify with your faculty advisor or department chair that previously requested course substitutions and/or waivers have been approved.
- Schedule an appointment with your faculty advisor or department chair to complete a Graduation Planning Sheet and Program Curriculum Sheet or Degree Check audit. These important documents record the courses you have completed and indicate your plan to complete any remaining courses. It should be finalized no later than the end-of-drop/census date for the semester you plan to graduate. **If you submit your planning sheet after the deadline, we will place it in the next term's graduation file.**
- **Your diploma and final transcript will not be issued until all PCC financial obligations are met.**

Once you have completed the Graduation Planning Sheet, it is your responsibility to notify your faculty advisor or department chair immediately of any changes to your plan. You and your faculty advisor or department chair will complete the Request for Modification Form and submit it to the Records Office.

You may complete your graduation requirements any time during a term; however, you should anticipate at least a six-to eight-week delay following the submission of final grades before we verify your graduation status, post it on your transcript, and mail your diploma. The officially recognized graduation date posted on your transcript is the last day of the term as listed in the PCC Academic Calendar.

PCC has one formal graduation ceremony for all three terms. This ceremony is held once each year in the spring semester. Please refer to the Commencement section below for more information.

Catalog Requirements

You may graduate using the requirements of this catalog; you may also choose to graduate under the requirements of the catalog with which you started your degree. You may also choose to graduate under the requirements of a later catalog provided you are enrolled for college credit each semester on a continuous basis in the same program (summer sessions excluded), and provided you complete your graduation requirements within a period of five years. If you change your major, you must follow the requirements of the catalog in effect at the time of the change. Any exceptions to this policy must have prior approval from the appropriate academic dean.

Commencement

PCC holds its commencement ceremony once each year at the end of spring semester. You are eligible to participate in commencement if you:

- are a graduation candidate in a degree program
- are a graduation candidate in a certificate program that requires, at minimum, 16 semester credit hours
- are a graduation candidate for the spring semester
- graduated the preceding fall semester
- will be graduating at the end of the following summer session

INSERT PHOTO

Services for Students

Services for students are available at PCC's Fremont, SCCC and Pueblo campuses; contact each campus directly. To find out if the services listed in this section exist at all campuses, contact the Go!Zone (Enrollment Services Office).

Bookstore

The PCC Bookstore serves PCC students, faculty, staff and the community. We sell all required textbooks and supplies, as well as general interest art, office and school supplies, calculators, greeting cards, computers, clothing and gift items. The bookstore conducts a used book buy-back at least once during each semester. Students can sell back their books year-round on our website. In order to serve our students, we offer both book rentals and used rentals for purchase. The Pueblo campus has a physical store open year round. The Fremont Campus has a store that is open at the beginning of each semester. SCCC students are invited to purchase from our website with direct ship to their homes. Students from all campuses can purchase all items [online](#).

Career and Transfer Services

Career and transfer services are offered to students and alumni through the Career and Transfer Center located in the Student Center, Room 155. Services include:

- Career exploration and planning
- Job posting and industry job fairs
- Employer networking and information sessions
- Resume and cover letter seminars
- Interview skills workshops
- Full-service career management system
- Four-year college and university information and visitations

Call 719.549.3036 for information.

Children First: Child Care Referral Service

If you need child care, Children First can provide **free** customized referrals to students, faculty and staff for licensed child care providers or programs that will meet your unique needs. Stop by our office in AB-154, call 1.877.338.2273 or check [online](#). We can also help find trainings for parents or child care providers.

Children First also assists Early Childhood (EC) professionals by providing opportunities for continuous program enhancement through the support of the new Colorado Shines Quality Rating and Improvement System, and by scheduling trainings for EC professionals to meet licensing requirements and Professional Development Information System (PDIS) requirements to further their personal professional development.

Children First maintains a list of community resources in southeastern Colorado. Stop by our office to find out more. In addition to our Pueblo campus office, we have a satellite office at the PCC Fremont Campus. For more information, call 719.549.3411 in Pueblo or 719.296.6118 in Cañon City.

Customer Solutions Center/Downtown Studio

The Customer Solutions Center is a phone-based help center where prospective and current students can get answers regarding enrollment and services such as financial aid. The CSC can be reached by calling 719.549.3200. We are located in the Downtown Studio on the corner of First Street and Santa Fe Avenue in Pueblo. Staff members provide one-on-one enrollment services to assist veterans, displaced and low-wage earners with the transition to college life.

Dining Services

The Pueblo Joe's cafe is located in the lower level of the Student Center. Pueblo Joe's offers breakfast specials along with pastries and beverages. The lunch menu includes specials, deli sandwiches, grill items, healthy grab n' go items and a build-your-own burrito and salad bar. The PCC Culinary Arts Program offers lunch in the GPA Dining Room next to the cafe from 11:30 a.m. to 1:00 p.m. Tuesday through Friday during fall and spring semesters. During the fall and spring semesters, gourmet dinners are served in the GPA Dining Room on Wednesday evenings. Pueblo Joe's and the GPA Dining Room area are open to students, faculty, staff and the general public. The college also provides a complete catering service for large and small events scheduled at PCC.

Health Clinic

Students enrolled in six (6) or more semester credit hours can receive free office visits at the PCC Health Clinic. Students enrolled in less than six (6) semester credit hours will pay a \$30 office visit fee. Health clinic services offered include, but are not limited to, general office visits, physical exams, well-woman exams, minor injury treatment, immunizations and prescriptions. All students pay a reduced fee for any vaccines, lab work or other miscellaneous testing needed. For more information or to schedule an appointment, please call 719.549.3315. Immediate family members of students, faculty and staff can also use the clinic and will be charged the \$30 office visit fee.

Learning Center

The Pueblo, Fremont and SCCC East and West campuses each have a Learning Center and each center offers various services. You may inquire about these services on your campus.

Computerized learning assistance is available at all campuses. PrepSTEP is an interactive computerized tutorial and testing program that offers support for a wide variety of subjects. PrepSTEP also offers career-seeking services, including interest inventories, career information, resume writing and interview skills. This program is Internet based and available any time. For more information, contact the Learning Center on your campus.

The Learning Center provides the following services:

Disability Resources (AB 120)

If you have a disability (including issues related to post-traumatic stress and/or temporary disabilities such as a broken arm), you may qualify for accommodations. These accommodations include, but are not limited to, note-taking services, alternative text formats and sign language interpreting services. These services are available to students at all campuses.

The Disability Resources Center also offers courses in assistive technology. CIS 101, 102, 104 and 107 are small, self-paced courses that teach you how to use assistive technology such as voice recognition programs, screen readers and other adaptive devices. You also have access to the assistive technology classroom during open lab hours. (Note: Lab hours may vary from semester to semester.)

Student Computer Access (AB 042)

We have laptop computers that students may use to do required academic work. Our state-of-the-art computers have many software programs used in academic classrooms, as well as Internet service you may use to conduct academic research. Use of laptops requires a photo ID and laptops must remain in the Learning Center.

Testing Center (AB 134)

The Testing Center offers many different testing and assessment services to students and the community. These include, but are not limited to, placement testing, typing tests, academic testing, high stakes/professional testing, DSST (Dantes) testing, distance proctoring services, and CLEP (credit by examination) testing. All services in the Testing Center require a current valid photo ID.

Tutoring (AB 056)

Tutorial Services offers free tutoring assistance to all students enrolled at PCC. Each campus offers different options. Students should contact their campus to inquire about what tutoring is offered for various courses.

At the Pueblo campus, there is a drop-in tutoring option known as Pro Tutoring – Writing Pro, Math Pro, Science Pro and IT/Computer Pro. Pro Tutoring services are available Monday through Friday during the Learning Center’s normal operating hours. Pro Tutoring schedules are posted on the college website under Tutoring. Hard copy schedules are available in the Learning Center.

Tutoring for other courses may be requested by submitting a tutor request form in the Learning Center.

Online tutoring through NetTutor is also available. It can be accessed through the Desire2Learn (D2L) program and is free to PCC students at all campuses.

Library

PCC’s Pueblo and Fremont campuses have academic libraries providing materials and services to students, faculty and community members. The library collections contain more than 55,000 books, periodicals and nonprint materials, as well as digital resources such as online databases and eBooks. At the PCC Pueblo campus, the library is located in the Mike Davis Academic Building and is designed to provide several learning support services including private study rooms, laptops for use inside and out of the library, reference materials and research assistance from library professionals.

Currently enrolled students and PCC staff members automatically have a library account and their PCC ID card is used as a library card. Patrons checking out materials agree to the PCC Library Borrower’s Agreement, which can be found on the PCC Library web page under [Library Information](#). Access to the library’s online databases is permitted with the use of the student or staff member’s S number. The Pueblo Campus Library provides the following services:

Features

The Pueblo Campus Library provides laptop computers and accessories, eReaders, digital recorders, scanners, laser printers, a photocopier and open and private study areas. One ADA-compliant computer work station is provided for wheelchair-bound patrons and some adaptive equipment is available upon request.

Library Catalog

Access to the PCC Library Catalog is made available through the [PCC Library](#) webpage from the Start Your Research Here menu option. Library materials are shared between the Pueblo and Fremont campus libraries and can be requested by students and staff at any PCC or SCCC campus.

Online Resources

Forty online resources are available to PCC students and staff, including library databases with full-text articles, streaming media and an eBook collection of more than 18,000 titles. Access the databases on any campus computer or off-campus through the PCC Library home page using your S number. The PCC Library also provides information literacy and research instruction via the PCC Library Classroom in the D2L learning management system.

Reference

Reference assistance is available for developing research strategies and identifying resources for class assignments or personal interests. Individual and group orientations are available to students and instructors. Time with a reference librarian can be scheduled by phone, email or the [Book a Librarian](#) option on the PCC Library webpage.

Course Reserves

Course reserves are meant to be utilized inside the library. This collection includes books and study materials provided by instructors to supplement course textbooks, as well as writing style manuals and other academic aids. Students may inquire at the library's service desk for course reserves.

Access to Colorado Libraries

The PCC Library is a Colorado Libraries Collaborate (CLC) member. PCC students and staff members at PCC are allowed to check out materials from other participating Colorado libraries by showing their PCC identification card.

Interlibrary Loans

Through this loan service, you may request books or journal articles from libraries statewide.

Marketing and Communications Office

PCC's Marketing and Communications Office is responsible for media relations, advertising, marketing, public relations, college branding and special events. The department is responsible for PCC's website and the myPCC portal. To keep PCC students and the college informed, Marketing and Communications publishes timely news via an electronic newsletter called the Panther Pause and *FYI News*, a quick-read flyer that is posted in the restrooms.

Office of Recruitment

The Office of Recruitment conducts an array of activities to create community awareness of PCC programs and the college in general and assists prospective students through the enrollment process. These activities include conducting campus tours and visiting schools and organizations to deliver presentations. Student Ambassadors serve a key role in assisting with these efforts. If you are interested in scheduling a campus tour for yourself or a group, or would like to meet with staff to assist you through the enrollment process, please call 719.549.3116. On the Fremont Campus, tours can be arranged by calling 719.296.6105.

Public Safety / PCC Police Department

Reporting a Crime

In the event of any crime, fire or emergency on campus or its surrounding area(s), students and employees should immediately notify the law enforcement entity for the respective location, as follows:

Pueblo Campus – PCC Police Department, Student Center, Room 152 at 719.549.3355, 911 or using one of eight Blue Emergency Phones located throughout the Pueblo campus.

City of Pueblo – Pueblo Police Department, 200 S. Main St, Pueblo, CO 81003, at 719.553.2538

Pueblo County – Pueblo County Sheriff’s Office, 909 Court St., Pueblo, CO 81003, at 719.583.6250

Fremont Campus – PCC Police Department (Room FC115), at 719.296.6130 or 911

City of Cañon City – Cañon City Police Department, 161 Justice Center Road, Cañon City, CO 81212, at 719.276.5600

Fremont County - Fremont County Sheriff’s Office, 100 Justice Center Road, Cañon City, CO 81212, at 719.276.5555

SCCC East Campus/City of Durango – Durango Police Department, 990 E. Second Ave., Durango, CO 81301, at 970.385.2900 or 911

SCCC West Campus/City of Cortez – Montezuma County Sheriff’s Office, 730 E Driscoll St., Cortez, CO 81321, at 970.565.8452 or 911

Reporting a Crime to a Campus Security Authority (CSA)

Although PCC encourages all criminal incidents be reported to law enforcement, a student may report a crime to a Campus Security Authority. However, students may also report a crime to a Campus Security Authority (CSA), who is responsible for forwarding non-identifying information to the PCC Police Department for inclusion in the annual Security Report, regardless of whether the victim chooses to file a report with law enforcement. CSAs are defined as “someone who has significant responsibility for students and campus activities.” The following are examples of CSAs:

Club sponsors	Dean of Students
Department of Public Safety	Department chairs
Disability Resources and Services staff	Financial aid advisors
Student Life staff	Title IX coordinators

Confidential Crime Reporting

A witness to a crime who wishes to remain anonymous may call the following to report a crime anonymously. Please remember these are voice message systems only and immediate action will not be taken.

- Pueblo Campus – Pueblo Crime Stoppers, 719.549.7867
- Fremont Campus – Fremont County Crime Stoppers, 719.275.7867
- SCCC East and West Campuses – Durango-La Plata Crime Stoppers, 970.247.1112
- All Campuses – [Safe2Tell](https://www.safe2tell.com): 1.877.542.SAFE

Recreation Center

The PCC Recreation Center is located in the Student Center, Room 159. The Recreation Center provides recreation, fitness, special events and wellness opportunities for students, faculty, staff and community members.

We strive to enhance healthy lifestyles and well-being on the PCC campus in a safe and welcoming environment.

Individual Fitness: More than 60 pieces of cardiovascular and weight training equipment are available.

Group Fitness Classes: Every semester the Recreation Center provides a variety of Group Fitness classes with a schedule available on the PCC Recreation Center webpage. Classes offered are Senior Strength Training, WOW (Women on Weights), Yoga, Tai Chi, Zumba, Chair Yoga, Strength Training and Cycle Fit.

Intramural Sports: We offer a variety of co-ed seasonal intramural sports. Intramural sports are open to all students, faculty, staff and community and include flag football, basketball, soccer and volleyball. Seasonal information on intramural sports and questions can be directed to the Recreation Center.

Outdoor Leadership Adventure Program: These are field-based expeditions to enhance the student's education outside of the classroom by learning leadership skills in an outdoor environment. The program serves PCC students by providing low-cost outdoor activity-based trips, including skiing, snowboarding, hiking, whitewater rafting, backpacking, rock climbing and mountain biking. For trip information, please call the Recreation Center.

All PCC students carrying at least one (1) credit have free access to the Recreation Center with a valid PCC ID. The PCC Physical Education Department also offers a variety of courses each semester. Operating hours are 5 a.m. to 9 p.m. Monday-Thursday, 5 a.m.-6 p.m. Friday and 7 a.m.-3 p.m. Saturday. The center is closed on Sunday. Please call 719.549.3363 for more information.

Referral Services

These services are offered to students who need ongoing counseling, mental health and alcohol assistance. You may contact our physician located in the Medical Technology Building, Room 118 on the Pueblo Campus and the Go!Zone at the Fremont Campus. We also have a Navigator Trainer on the Pueblo Campus located in the Student Center, Room 241. These offices provide a number of services:

Crisis Intervention

Assistance is available to students who are experiencing a crisis. Once the crisis has passed, we refer students to off-campus resources.

PROJECT ACCESS (Advancing Community Care; Enhancing Student Success)

The Pueblo Campus of PCC has partnered with Catholic Charities to offer assistance to students. In addition to an Options 4 Change class, Project Access provides referrals to numerous community services. This is an exciting partnership that is a valuable resource for PCC students.

Drug and Alcohol Prevention Information

PCC maintains drug prevention information and resources in cooperation with the referral sources in the community. We also have information concerning alcohol abuse prevention. These resources are available to all employees and students. You can obtain information and confidential referrals by contacting the Director of Student and Judicial Affairs.

Stem Center

The STEM Center is located in the Academic Davis Building, Room 150 and provides students with state-of-the-art equipment to supplement their classroom experiences in Science, Technology, Engineering and Math. Equipment includes:

Computers and Laptops: Laptops can be checked out and retained in the STEM Center for your use with a student ID. Students can access the Internet, print assignments and access software programs that include CAD, SketchUp and Adobe. This software can be used to design 3D projects for our many 3D printers.

Nine 3D printers: The 3D printers in the STEM Center serve all of your design needs and include six Makerbots, two Afinias and one Mojo. These printers can be utilized by students to complete class projects as well as personal projects for a small fee.

Raspberry Pi Lab: Within the STEM Center is a Raspberry Pi Lab that is used in conjunction with the Engineering Methodologies class but can be utilized by students and faculty. It contains six stations with monitors, keyboard and mouse for Raspberry Pi hookup.

Three zSpace Computers: zSpace technology combines elements of virtual reality and augmented reality to create lifelike learning experiences on the computer. Applications include **Cyber Science**, which includes astronomy, botany, chemistry, Earth science, human anatomy, microbiology, mechanical, paleontology and zoology; **Cyber Anatomy**, which includes information on human anatomy; **Curie's Elements** (chemistry); **GeoGebra** (algebra); **Leopoly** (sculpting); **Newton's Park** (physics); and **Franklin's Lab** (circuitry).

Other Equipment: The STEM Center also houses two classrooms for science and math classes and contains other equipment such as Lego robotics, instant challenge supplies and meccanoid robotics.

Events: The STEM Center hosts many STEM events, including Technology Tuesdays, Science Thursdays and the Stars of STEM speaking series. Technology Tuesday provides hands-on opportunities to expose students, faculty and community members to new or existing technologies. Science Thursdays offers students, faculty and community members hands-on science inquiry. The Stars of STEM speaking series offers students, faculty and community members an inside look at what STEM professionals do in their careers and offers insight on the education required to obtain a position in that particular STEM field.

Student and Judicial Affairs

The Director of Student and Judicial Affairs is located in the Student Center, Room 241. The director also provides a number of services to college students, including:

- Mediation of conflicts with students or others on campus
- Resolution of disputes with other students or college offices
- Promotion of civility on campus
- Promotion of academic integrity
- Educational awareness of dating violence and stalking

The Student Center and Auxiliary Services

The PCC Student Center is a multiuse facility that provides one-stop shopping for many student services. The Student Success Division is located on the upper level with the Admissions & Records and Financial Aid offices. The lower level of the Student Center houses recreational and service facilities; these include the Bookstore, Recreation Center, televisions, Pueblo Joe's Café and student lounge areas. Wi-Fi access throughout the building has been implemented. A ballroom is located on the upper level; and is designed to accommodate special dinners, social functions and large group meetings for students and community members. For more information, call 549.3074 or visit the Student Center, Room 234.

TRIO Student Support Services/Project Success (TRIO SSS)

TRIO Student Support Services/Project Success is a federally funded program that provides opportunities for academic development, assists students with basic college requirements, and serves to motivate students toward the successful completion of their postsecondary education. The goal of the program is to increase the college retention and graduation rates of its participants and help students make the transition from one level of higher education to the next. Services include instruction in basic study skills; tutorial services; academic, financial, and personal counseling; assistance in securing admission and financial aid for enrollment in four-year institutions; and guidance on career options.

TRIO Upward Bound

The vision of the Upward Bound Program at PCC is to provide eligible students the opportunity to increase the academic performance and graduate from high school, go to college and to motivate the students to be the first generation to graduate from college with a four-year degree. The Upward Bound grant is funded through a TRIO grant from the U.S. Department of Education.

TRIO Veterans Upward Bound

Veterans Upward Bound (VUB) is funded by the U.S. Department of Education to provide free college preparatory courses to qualified veterans beginning or returning to college. Day and evening classes are offered year-round at Pueblo Community College, Pikes Peak Community College and CSU-Pueblo. Assistance is offered to veterans who do not have high school diplomas prepare for the GED test. Application assistance, career and academic advising, transcript requests, financial aid assistance, basic skills testing and individual tutoring are offered to VUB veterans. For more information, please contact the Veterans Upward Bound Office at 719.549.3077 or Room 194 in the Davis Academic Building.

Two-way Interactive Video Classrooms

Two-way interactive video classes are taught at any campus location with students participating from another campus location through video conferencing. These courses include online classroom instruction and participation.

ADD PHOTO

Pueblo Corporate College



Pueblo Corporate College is committed to providing quality customized workforce training, professional development and personal enrichment opportunities throughout Pueblo Community College's campus communities.

Services available through Pueblo Corporate College include:

Customized Corporate Training and Consulting: Delivering customized education, training and consulting programs, Pueblo Corporate College provides existing workers and businesses with the tools to stay competitive in the global marketplace through a variety of options that meet the demands of today's industries.

Professional Development and Continuing Education: Offering educational opportunities for adults, Pueblo Corporate College provides short-term courses to assist professionals with upgrading their skills to advance their careers, renew licenses and prepare for certifications.

Lifelong Learning: Through unique opportunities, community individuals may participate in a variety of workshops and programs that provide personal enrichment and engagement with others.

Business and Entrepreneurial Training and Consulting:

Committed to helping new and existing businesses grow, the **Southern Colorado Small Business Development Center**, a branch of Pueblo Corporate College, provides confidential consulting and state-of-the-art training programs tailored to meet the challenges and opportunities available for area companies.



State of Colorado Department Training and Development: Partnering with the Statewide Training and Development Center, professional workshops are available to the southern Colorado region.

Simulation Training and Extended Studies for Healthcare Professionals: Utilizing the Pueblo Community College Simulation Lab at St. Mary-Corwin Medical Center, Pueblo Corporate College offers customized, hands-on training for a wide variety of occupations in the healthcare industry.

Pueblo Corporate College is committed to:

- Identifying the best solutions and measures of success for each customer
- Efficient and timely response to each engagement and contact with a dedicated single point of contact
- Accurate and measurable results
- Exceptional customer service by responding to customer needs with flexibility and comprehensive project management
- Access to a vast network of experts and resources, including grant opportunities through the Governor's Office of Economic Development and International Trade.

For additional information, contact Pueblo Corporate College at 719.549.3320 or 1.866.478.3256.

Pre-College Programs

Pre-College Programs offer an array of opportunities for individuals seeking a high school diploma, GED or pathway into higher education. These second-chance programs are designed to meet the needs of the community and address the need for providing opportunities for a more productive life.

Gateway to College – Gateway to College serves students ages 17-20 who have not experienced success in a traditional high school but have a desire to get back on track and earn a diploma and more. Students can earn a high school diploma while earning college credits toward an associate degree or certificate. Gateway to College students are college students, with college opportunities and college expectations.

GED Classes – The GED Preparation Class is designed to help individuals who have not earned a high school diploma earn a GED (General Education Development). A GED has become an essential first step for improving an individual's opportunities for employment and education. The curricula include the complete Steck-Vaughn Test Preparation for the 2014 GED series that is divided into four (4) subject area sections: Reasoning through Language Arts, Mathematical Reasoning, Social Studies and Science. GED Academy provides computer-based instruction and built-in assessment process that creates customized learning plans.

ATTACH PHOTO(S)

Student Life

The Student Life Department is committed to providing students every opportunity to make the most of their time here at PCC. Our aim is to enrich the student experience and promote lifelong learning by fostering an inclusive community that will empower students to lead and serve through meaningful involvement – whether it be helping plan an event, taking on a leadership role, participating in clubs or joining an intramural sports team.

The Associated Student Government

The Associated Student Government is the student governing body which is available at all campuses – Durango, Fremont, Mancos and Pueblo.

MISSION STATEMENT

Empower students by creating opportunities to become involved and provide leadership while collaborating with the college and community in order to establish a supportive environment for our PCC students so they become personally enriched.

PURPOSE STATEMENT

The purpose of Pueblo Community College Associated Student Government is to represent the student population on all campuses by pursuing social, political, academic and administrative initiatives of interest to our growing and diverse student body. In addition, the Pueblo Community College Associated Student Government shall act as a liaison between the student body and the college administration, the overall college community, the local, state and federal governments and other individuals and organizations. The ultimate task of the Associated Student Government is to address the needs, problems and concerns of the student body and to carefully listen to suggestions from the student body.

Student Organizations

All PCC students are encouraged to join any campus/site organization that is recognized by the Associated Student Government and advised by a member of the faculty/staff. A student must be in good standing and meet the entrance requirements of the organization.

Fremont Campus

Automotive Club

The Pueblo Community College/Canon City High School Auto Club is designed to give students an opportunity to learn and gain experience in the automotive area outside of regular class time. The Auto Club is open to students currently enrolled in auto classes and students not able to take auto classes but interested in automotive.

Health Professions Club

The Student Nurse's Club is open to all pre-nursing, first-year and second-year nursing students. It is a service club that works with the Associated Student Government to support campus activities. Members also serve as volunteers for various community fairs and clinics, enhancing the health of the public through education, action and service.

Students Helping Students Club

Students Helping Students is a club of students getting together to help other PCC students by utilizing the talents and abilities of all its club members. This club's mission is to give advice or point students in the right direction.

Pueblo Campus

Art Club

The Art Club seeks to enhance the cultural atmosphere of PCC, provide artistic students with a forum in which they can discuss art esthetics and technique and provide a voice in the Associated Student Government to represent the community of artists on campus.

Colorado-ADN Club (Associate Degree Nursing Club)

PCC Nursing students and other interested students can join this club for the promotion of Associate Degree in nursing. The club acts as an advocate for student ADNs; it also helps them enhance the health of the public through education, action and service.

Culinary Arts Club

The Culinary Arts Club is composed of students and alumni of the Culinary Arts and Hospitality Studies Program. The club sponsors on-campus culinary arts activities and participates in local and statewide events, as well as travel and tourism opportunities for all members.

Dental Assisting Student Organization (DASO)

Participation in DASO offers the Dental Assisting student development in organizational leadership skills. The focus of the club is to promote the profession of dental assisting and dental health awareness through college activities and community service projects. Members also have opportunities to be active in state and national dental assistants' associations to promote the profession, seek personal and professional development and enhance awareness of lifelong learning.

Dented Circle (Philosophy Club)

The purpose of the Dented Circle Philosophy Club is to exercise philosophical thought among club members and encourage critical thinking among the general public through outreach.

Disability Student Support Mentoring Organization (DSSMO)

The Disability Student Support/Mentoring Organization (DSSMO) has been established to create a community of individuals who understand and can relate to the daily challenges facing students with disabilities, to promote a positive and supportive environment for individuals with disabilities as well as for those individuals who support them, and to educate the college community about the various types of disabilities in order to promote awareness and educate faculty and staff about how they can best assist students with disabilities.

Fire Science Club

The purpose of the Fire Science Club is to promote fire safety awareness and to educate, prepare and demonstrate what to do in case of a fire-related emergency, how to safely handle emergency situations and to educate about the potential hazards found in households, businesses and the workplace.

History Club

The History Club encourages and promotes the study, exploration and appreciation of history through discussions, travel to historical sites and research. It recognizes excellence in the study of history through competitions and other academic forums.

Occupational Therapy Assistant (OTA) Club

This club acts as an advocate for occupational therapy to enhance the health and wellness of students and the general public. It participates in education, action and service projects on campus and in the Pueblo community.

Panther Players

The Panther Players aim to develop and encourage student interest, passion and education in the fine arts and spread the love of the fine arts to the PCC campus and beyond.

Phi Theta Kappa

Phi Theta Kappa is an international scholastic honor society for two-year community and junior colleges. Phi Theta Kappa recognizes student academic achievement at PCC and promotes academic excellence at the college. To be eligible for membership, a student must be currently enrolled with a 3.5 grade point average after completing 12 or more credit hours of college-level work. PCC's Alpha Rho Theta Chapter of Phi Theta Kappa is an active society, participating in many community service, scholarship and fellowship events. After induction, a student may select standard or enhanced membership, which is determined by the level of participation in chapter activities. As a Phi Theta Kappa member, you will be honored at graduation for outstanding academic achievements.

President's Leadership Program (PLP)

The President's Leadership Program provides a network of academic courses, co-curricular and service learning opportunities that address intellectual and pragmatic issues of leadership and followership in American life.

PS CARE

The mission of Psychology and Social Work: Careers and Resources for Education (PS CARE) shall be to provide students interested in the areas of psychology and/or social work with a student support system to help with awareness, resources and education for future careers. PS CARE offers members opportunities to participate in activities designed to provide awareness of social issues and assistance for those in need in the Pueblo community.

Physical Therapist Assistant (PTA) Club

The PTA Club promotes physical therapy through various activities during the academic year, encourages participation in service activities for the community, and promotes professional and career development at the local, state and national level.

Respiratory Care

The PCC Respiratory Care Club will encourage and promote professional excellence, serve as an advocate for the students and the college, provide service to the community, and promote the profession of a Respiratory Therapist.

Science, Technology, Engineering and Mathematics (STEM) Club

The mission of the PCC STEM club shall be to mentor members, provide resources for scholarships and provide support for the science, technology, engineering and mathematics students at PCC. Assistance with proofreading of scholarship essays for admittance into four-year institutions is provided. As a club, we will also participate in campus and community events.

Skills USA

Skills USA is made up of students in the Auto, Auto Collision, Machining and Welding programs. Skills USA equips its members with vocational and leadership skills. Skills USA is a local, state, national and international organization.

Space Grant Robotics Team

The Space Grant Team is in association with the Colorado Space Grant Consortium (COSGC), which is funded by NASA and is a statewide organization involving 17 colleges and universities in Colorado. COSGC hopes to inspire PCC students to become involved with engaging, hands-on experiences in programming and designing in many different endeavors such as balloon satellites, robotics and electronic wearables. This organization also gives students the opportunity to become involved in many areas of scientific research.

Spectrum

Spectrum seeks to meet the growing need for support, networking and awareness among Lesbian, Gay, Bisexual, Transgender and Queer/Questioning (LGBTQ) students and their allies across the campus of PCC and beyond. The organization promotes education, compassion, acceptance, awareness and safety for the students, staff and faculty of the PCC campus and the greater Pueblo community. These ends will be met through relationships with other PCC campus groups, existing ASG clubs, faculty and staff and other community resources.

Student Ambassador Program

The Student Ambassador program allows PCC to recognize students and to employ their talents for the good of the college. Student Ambassadors – a key part of the Office of Recruitment team – help with campus tours, recruitment activities, special events and speaking engagements on the Orman Campus. To learn about eligibility requirements, contact the Director of Recruitment at the Orman Campus or email recruitment@pueblocc.edu.

Student Chapter American Dental Hygienists Association (SCADHA)

Dental Hygiene students are automatically members of SCADHA and associated with the American Dental Hygienists' Association. SCADHA meets monthly for business and professional development, as well as to organize community service and fundraising projects to finance its community and school activities. It emphasizes personal and professional development, encouraging students to assume responsibility for the procedural and financial aspects of managing a professional organization.

Thoreauly Well Read (Book Club)

Thoreauly Well Read seeks to bring reading alive so that it becomes more than simply a solitary hobby. The club seeks to unite those who take extra value to what literature has to offer, help those who have an interest in literature obtain proper materials, and involve the PCC community in activities that provide academic benefits and campus unity.

Trio Student Support Services

The purpose of TRIO SSS is to provide students with experiences and opportunities to further their education and better educate the Pueblo community about issues relating to the TRIO SSS Advocate for fellow TRIO participants.

TRIO Upward Bound

Provide students with experiences and opportunities to build their leadership skills to educate the Pueblo community about issues relating to TRIO programs and to be more visible on campus and within the Pueblo community.

Veteran Service Group

The primary purpose of the Pueblo Community College VSG is to provide a network of campus and community support for military veterans. The VSG will also work with PCC administration to ensure that the needs of current and prospective student veterans continue to be met.

Important Legal Information

Student Privacy Rights

The Family Educational Rights and Privacy Act of 1974 (FERPA), commonly known as the Buckley Amendment, affords students certain rights with respect to their education records. The Act helps protect the privacy of your records by requiring that PCC limits the disclosure of information from these records to third persons, as well as notify you of the right to review and correct your records.

Pueblo Community College (PCC) may release the following directory information about you to the public:

- Student name
- Major field of study
- Dates of attendance
- Degrees and awards received
- Enrollment status (full time, part-time, etc.)
- Most recent educational institution attended
- Participation in officially recognized activities and sports
- Height and weight (only for students in officially recognized activities and sports)

PCC Notification of Rights under the Family Educational Rights and Privacy Act (FERPA) of 1974. The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. FERPA rights are afforded to the students at the time of admission. These rights include:

The right to inspect and review the student's education records within 45 days of the day PCC receives a request for access. A student should submit to the Records Office a written request that identifies the record(s) the student wishes to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar, staff shall advise the student of the correct official to whom the request should be addressed.

The right to request the amendment of the student's education records that the student believes is inaccurate, misleading or otherwise in violation of the student's privacy rights. A student who wishes to ask PCC to amend a record should write the Registrar (who will notify the college official responsible for the record), clearly identify the part of the record the student wants changed, and specify why it should be changed. If the College decides not to amend the record as requested, the College will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

The right to provide written consent before PCC discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to College officials with legitimate educational interests. A College official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a

person or company with whom the College has contracted as its agent to provide a service instead of using college employees or officials (such as an attorney, auditor or collection agent); a person serving on the College Board; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. PCC has designated the National Student Clearinghouse as a College official. A College official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the College. Upon request, the College discloses education records, without a student's consent, to officials of another school, in which a student seeks or intends to enroll, or after enrollment. The College may share educational records to parents in the following circumstances: for a student who is dependent under IRS tax code; a student under 21 years old who has violated a law or the school's rules or policies governing alcohol or substance abuse; and when the information is needed to protect the health or safety of the student or other individuals in an emergency.

FERPA Annual Notice to Reflect Possible Federal and State Data Collection and Use. As of January 3, 2012, the U.S. Department of Education's FERPA regulations expand the circumstances under which your education records and personally identifiable information (PII) contained in such records – including the Social Security Number, grades or other private information – may be accessed without your consent. First, the US Comptroller General, the US Attorney General, the US Secretary of Education or state and local education authorities (Federal and State Authorities) may allow access to your records and PII without your consent to any third party designated by a Federal or State Authority to evaluate a federal or state-supported education program. The evaluation may relate to any program that is “principally engaged in the provision of education,” such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to your education records and PII without your consent to researchers performing certain types of studies, in certain cases even when we object to or do not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive your PII, but the Authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain and share without your consent PII from your educational records, and they may track your participation in educational and other programs by linking such PII to other personal information about you that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service and migrant student records systems.

The right to file a complaint with the US Department of Education concerning alleged failures by the College to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office, US Department of Education, 400 Maryland Avenue, SW Washington, DC 20202-5901.

In accordance with the Fair and Accurate Credit Transactions Act (FACTA) of 2003, **Pueblo Community College** adheres to the Federal Trade Commission's (FTC) Red Flag Rule (a Red Flag is any pattern, practice or specific activity that indicates the possible existence of identity theft.), which implements Section 114 of the FACTA and to the Colorado Community College System's Identity Theft Prevention and Detection Program, which is intended to prevent, detect and mitigate identity theft in connection with establishing new covered accounts or an existing covered account held by the Colorado Community College System (System or CCCS) or one of its thirteen (13) community colleges, and to provide for continued administration of the Program. If a transaction is deemed fraudulent, appropriate action will occur. Action may include, but is not limited to, canceling of the transaction, notifying and cooperating with law enforcement, reporting to the Student Code

of Conduct Office, and notifying the affected parties. For more information on FACTA, Red Flag Rules and Identity Theft Consumer Information, please see the links provided below:

- [Federal Trade Commission Statute](#)
- [Red Flag Rules](#)
- [Identity Theft Consumer Information](#)

Solomon Amendment

Institutions of higher education receiving Federal grants and contracts are subject to the Solomon Amendment (10 U.S.C. 1983 § 549). It allows federal funding to be cut if military recruiters are prohibited from recruiting on campuses/sites or are prohibited from accessing student directory information for recruiting purposes.

Covered student directory information (“student recruiting information”) is defined as name, address, telephone listing, age or year of birth, academic major and level of education (e.g. freshman, sophomore, etc., or degree awarded). Where there is a conflict between the Family Educational Rights and Privacy Act of 1974 (FERPA), the Solomon Amendment would supersede FERPA. A student who has requested nondisclosure of directory information to any party under FERPA remains protected.

Institutions must respond to each of the separate branches of the military services, but only need to do so once per academic semester to each branch. **Military recruiters can contact the Records office for more information on this student directory information.**

Affirmative Action/Equal Opportunity

PCC is an equal opportunity educational institution and the College does not discriminate on the basis of sex/gender, race, color, age, creed, national or ethnic origin, physical or mental disability, veteran status, pregnancy status, religion, genetic information, gender identity or sexual orientation in its activities, programs or employment practices as required by Title VII, Title IX, Section 504, Age Discrimination Act, and Title II of the ADA. The College has designated the Director of Human Resources as its Affirmative Action Officer with the responsibility to coordinate its civil rights compliance activities and grievance procedures.

For information, contact the Director of Human Resources, 900 W. Orman Ave., Pueblo, CO 81004, telephone: 719.549.3220; or the Office for Civil Rights, US Department of Education, Region VIII, Federal Office Building, 1244 N. Speer Blvd., Suite 310, Denver, CO 80204, telephone 303.844.5695, TDD 303.844.3417.

Sexual Harassment Notice

PCC does not tolerate or condone sexual harassment in any form. Unwelcome sexual advances, requests for sexual favors and other verbal or physical conduct of a sexual nature constitute sexual harassment when:

- Submission to such conduct is made either explicitly or implicitly a term or condition of an individual’s employment or of academic status in course, program or activity; or participation in a class or program.

- Submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting the student or employee.
- Creating an intimidating, hostile or offensive academic work environment; or unreasonably interfering with another's academic performance or work.

Sexual harassment as defined may include, but is not limited to, the following:

- Sex-oriented verbal “kidding,” abuse or harassment.
- Unwelcome sexual advances or requests for sexual favors.
- Repeated remarks to a person with sexual or demeaning implications or the use of vulgarity.
- Unwelcome touching, such as patting, pinching or brushing against another's body.
- Suggesting or demanding sexual involvement, accompanied by implied or explicit threats concerning one's grades, employment status or similar personal concerns.
- Unwelcome posters, letters or other writings or communications of a sexual nature.
- Other verbal or physical conduct of a harassing nature.

Sexual harassment is illegal and is a violation of Title VII of the Civil Rights Acts of 1964, as amended, and Title IX, which prohibits sexual discrimination in educational programs or activities. PCC is committed to upholding this policy prohibiting sexual harassment. Violation of this policy may be grounds for dismissal. While it is the purpose of this policy to protect all persons associated with the College from sexual harassment, it is also a violation of this policy to knowingly make a false allegation of sexual harassment.

If you feel you have been subjected to sexual harassment and need information about what to do, contact the Director of Human Resources at 900 W. Orman Ave., Pueblo, CO 81004, telephone: 719.549.3220; or the College President. All matters involving sexual harassment complaints are taken seriously and will be investigated. Complaints will remain confidential to the extent possible. Filing of a complaint or otherwise reporting sexual harassment in good faith will not reflect upon your status or affect future employment, work assignments or grades.

Violence Against Women Act (VAWA), Section 304

On March 7, 2013, President Barack Obama signed a bill that reauthorized the Violence Against Women Reauthorization Act (VAWA). Included in the bill is Section 304, which addresses sexual violence in higher education. Pueblo Community College fully supports VAWA by educating, preventing and supporting the community about issues surrounding domestic violence, dating violence, sexual assault and stalking; defining consent; promoting options for bystander intervention; recognizing warning signs of abusive behavior; and promoting ways to avoid potential attacks. PCC offers mandatory Human Resources VAWA training for all staff and student-lead activities that bring awareness of these issues to the student community. Assistance for victims is available through a consortium of the Pueblo Rape Crisis Center and PCC Judicial/conduct office. Project ACCESS can offer students referrals of off-campus organizations should the need arise. For more information feel free to contact any of the following offices: Director of Human Resources/Title IX Coordinator, Chief Student Success Officer, Director of Student and Judicial Affairs and Director of Public Safety.

Title IX Statement

Pueblo Community College (PCC) is committed to providing a learning environment that promotes personal integrity, civility and mutual respect free of sex discrimination and sexual misconduct. Title IX of the Educational Amendment Act of 1972 states that: **No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal assistance.** Sex discrimination violates an individual's fundamental rights and personal dignity. PCC considers sex discrimination in all its forms to be a serious offense. **This policy includes all forms of sex discrimination, including sexual harassment, sexual assault and sexual violence by employees, students or third parties.** This policy has been developed to reaffirm individual rights and responsibilities and to provide recourse for those individuals whose rights have been violated. It should serve as a guide on the expectations we have for sexual communication, sexual responsibility and sexual respect. Visit the PCC website for more [information](#) about the policy and for complaint procedures and forms.

All College employees, including student employees in certain roles, are mandatory reporters of sexual misconduct and discrimination. Mandatory reporters must ensure that any sexual misconduct or discrimination that they become aware of is reported to the College's Title IX Coordinator or designee. Reports may also be made to the College's Department of Public Safety at 719.549.3355. This policy applies to all sexual misconduct, discrimination or harassment regardless of the gender, gender identity or sexual orientation of the complainant or respondent.

Grievance Process

Pueblo Community College provides a grievance procedure for students, clients or volunteers who are providing a service to benefit the College under the supervision and control of a college employee (hereafter noted as grievant). A client or volunteer may only grieve a decision which bans him or her from the campus/site. A grievable matter is any alleged action which violates or inequitably applies written college policies or procedures. The grievant must be personally affected by such violation or inequitable action. Matters that are not grievable include those matters upon which the College is without authority to act, academic decisions (unless there is an allegation that the decision was motivated by illegal discrimination) and disciplinary actions.

For more information about the PCC grievance policy, refer to the [PCC Student Handbook](#).

Complaints

Pueblo Community College welcomes comments, suggestions and feedback from students, clients or volunteers. Individuals are encouraged to provide feedback or seek resolution about any concern or complaint at the lowest informal level progressing through the appropriate chain of command at all PCC campuses/sites. If the concern or complaint is not resolved through an informal process, a written complaint may be submitted to the Dean of Student Success Office.

Complaint Procedures

If you are taking any Pueblo Community College courses and you have a complaint about your experience with PCC, you have two options:

1. You can follow Pueblo Community College's process for student complaints, which can be found in the [PCC Student Handbook](#), or you may contact the [Higher Learning Commission](#), which is Pueblo Community College's accrediting agency.
2. If you are residing outside of Colorado while attending Pueblo Community College, in many cases you can file a complaint in the state where you are residing. As required by federal regulations, each state is required to share a [list of agencies](#) where complaints can be filed.

Before exercising either of the above options, you should know that most, if not all, external complaint processes require the student to exhaust all avenues of complaint internal to the institution before they will consider a grievance.

Surveys and/or Research at Pueblo Community College

While surveying students and conducting research can be important methods for advancing knowledge, Pueblo Community College reserves the right to endorse, allow or not allow surveys and research at the College, and the right to determine the timing of when surveys and research may be conducted as stated in PCC Policy 550. The Office of Institutional Research (OIR) is responsible for reviewing all proposed surveys and questionnaires; protecting the rights of human subjects; ensuring good survey methodology and design; preventing specific populations from being over-surveyed; avoiding the collection of duplicated information; and encouraging sharing of survey results with the PCC community. The OIR is authorized to review, approve, require modifications in or disapprove surveys or questionnaires conducted by or through the College. All survey, questionnaire and research activity/project requests must be approved prior to administration. Contact the Office of Institutional Research (OIR) and submit the Survey/Questionnaire Request Form.

Student Right-To-Know & Campus Security Act

PCC strives to provide a safe and healthy environment that enhances the learning process. All students and employees should be able to attend classes, work on campus/site and/or participate in activities with a feeling that they are in an environment that is safe and secure. PCC provides to all prospective students and employees the [Campus Security Policies and Procedures](#) and the most recent campus crime statistics. This is part of the Federal Law No. 101-542, the Student Right-to-Know and Campus Security Act of 1990.

The information addresses six topics related to campus crime and statistics: 1) a summary of PCC Crime Statistics, 2) policies regarding security, access to buildings and campus law enforcement, 3) procedures for reporting crimes and other emergencies, 4) information about sex offenses, 5) policies about the use, possession and sale of alcoholic beverages, and 6) programs about alcohol and drug abuse education, crime prevention and campus security policies.

Disclaimer Notices

Disclaimer for All Students

PCC disclaims liability of any kind for injury, illness, theft or damage of personal property of any student as a result of participation in field trips, shop or laboratory work, or classroom activities. Every reasonable effort is made to provide safe conditions for these activities.

Background and Drug Checks

Criminal background and drug checks are required of students entering all health and public safety certificate and/or degree programs. Certain offenses will preclude you from enrolling in a health program. Students should check with the program chair for specific requirements and due dates.

Student Malpractice & Liability and/or Health Insurance

If you are enrolled in health professions and service programs, you must carry malpractice and liability insurance. Personal health insurance coverage is strongly recommended and is required by some clinical affiliates. The insurance coverage is available at a nominal cost through a group policy arranged by the College. Speak to your program advisor or the PCC Cashier about this type of insurance coverage.

Disclaimer for Criminal Justice Majors

Many criminal justice and related agencies require certain standards of prospective employees at the application stage. Job applications uniformly ask applicants if they have ever been arrested for any offense, either misdemeanor or felony. An affirmative response or finding on the part of a prospective employer may be grounds to deny employment. A second requirement may require applicants to take psychological tests, lie detector tests and medical tests in order to determine if applicants are suited for a particular position.

With respect to the above, the Criminal Justice Department and the Pueblo Law Enforcement Academy of PCC advise that entrance into any CRJ course of study or subsequent graduation is no guarantee, explicit or implied, that a student is employable. Further, should a student be unable to be placed and/or remain in the course CRJ 280, Cooperative Education/Internship, after two good faith attempts at placement, neither PCC nor its employees accept responsibility in respect to the student's fulfillment of this program.

In an attempt to appropriately advise prospective students, a prior arrest and/or drug and alcohol history should be discussed with a Criminal Justice advisor prior to the student's admission into the Criminal Justice Program. Neither PCC nor Criminal Justice advisors will be held liable for a student's decision to continue in the program.

Disclaimer for Dental Hygiene Majors with a History of Felony

The State of Colorado Board of Dental Examiners requires licensing dental hygienists to answer questions concerning felony history, excessive use or abuse of controlled substances/alcoholic beverages (within the last five years), and any physical or mental condition that may affect the ability to practice dental hygiene. Other questions asked by the State Board pertain to an applicant's history of malpractice judgment and any disciplinary action by any government or private agency. The PCC Department of Dental Hygiene assumes no responsibility for the denial of licensure by the Colorado State Board of Dental Examiners.

Disclaimer for Emergency Medical Services Majors with a History of Felony

The Colorado Department of Public Health and Environment – Prehospital Division, which is responsible for certification of emergency medical technicians in Colorado, requires a criminal background check. Certain felonies or misdemeanors may prevent you from obtaining certification. The Emergency Medical Services programs at PCC assume no responsibility for the denial of certification by the Colorado Department of Public Health and Environment. For further information, contact the CDPHE-Prehospital Division at 303.692.2980.

Disclaimer for Nursing Majors with a History of Felony

The Colorado State Board of Nursing, which is responsible for licensing nursing personnel in Colorado, has varied restrictions which may affect those with a history of a felony conviction. The PCC Department of Nursing assumes no responsibility for the denial of licensure by the State Board of Nursing. Prospective students are responsible for contacting the State Board of Nursing at 303.894.2432 concerning any questions regarding their eligibility for licensure.

Disclaimer for Surgical Technology Majors with Criminal History

The State of Colorado Board of Regulatory Agencies requires licensing surgical technologist applicants to answer questions concerning felony history. The PCC Surgical Technology Program assumes no responsibility for the denial of licensure from the State of Colorado Board of Regulatory Agency. For further questions, you may contact the agency at 303.894.7800.

Disclaimer for Occupational Therapy Assistant Majors with a History of Felony

The National Board for Certification in Occupational Therapy (NBCOT) requires applicants to answer questions concerning felony history. This information is then available to states with licensure. The PCC Occupational Therapy Assistant Program assumes no responsibility for the denial of licensure in states in which there are such requirements. For further information, contact the NBCOT at 301.990.7979.

Disclaimer for Radiologic Technology Majors with Criminal History

Applicants are advised that persons with a prior felony, gross misdemeanor or misdemeanor may be declared ineligible for registry certification. The program assumes no responsibility for the denial of registry eligibility due to prior criminal conviction. Applicants who have any questions concerning registration restrictions due to a prior felony, gross misdemeanor or misdemeanor convictions are encouraged to undergo a **Pre-application Review of Eligibility for Certification** through the [American Registry of Radiologic Technologists](#), 1255 Northland Drive, Mendota Heights, MN 55120; telephone, 651.687.0048.

Disclaimer for Respiratory Care Practitioner Majors with a History of Felony

The State of Colorado Board of Regulatory Agencies requires licensing respiratory therapy applicants to answer questions concerning felony history. The PCC Respiratory Therapy Program assumes no responsibility for the denial of licensure from the State of Colorado Board of Regulatory Agency. For further questions, you may contact the agency at 303.894.7851.

Course Descriptions

Legend of the Course Descriptions

The credit courses offered by the College are listed in alphabetical order by discipline/program area. A general description of the content of each course is included. Special Topics are courses that are numbered 075-077, 175-177 and 275-277 provide students with a vehicle to pursue in-depth exploration of special topics of interest. The credits and grade scheme will vary depending on course content. The description and outline is approved by the dean and filed with the registrar.

Common abbreviations used in the course descriptions are:

CLI = Voc/Tech Clinic	COP = Cooperative Education
CORQ = Corequisite	CR = Credit
FIT = Field Instruction	ILB = Instructional Lab
IND = Independent Study	INT = Internship
L = Lecture	LBA = Academic Lab
LBV = Vocational Lab	OE = Occupational Experience
PED = Physical Education and Recreation	PRC = Practicum
PRI = Private Instruction	PRQ= Prerequisite
SEM = Seminar	STA = Art Studio
STM = Music Studio	VAR = Variable Credits

Instructional Course Type Guideline

Note: The CDHE (Colorado Department of Higher Education, formerly Colorado Commission on Higher Education) definition for a base contact hour is 750 minutes of section meeting time. CDHE has minimum guidelines expressing the minimum number of weekly contact hours expected to receive 1 credit. This varies depending upon the instruction type (e.g., lecture, lab). For example, a 3-credit-hour lecture course would need to meet the equivalent of three 50-minute blocks each week (for a total of 2,250 minutes per semester.)

The US Department of Education Higher Education Re-authorization Act requires institutions to define expectations for out-of-class student work for each credit hour. CCCS has defined the expectation as a minimum of two hours of out of class student work each week for one hour of classroom or direct faculty instruction time.

Course Type	Banner Codes	Description	Notes	Minimum Guidelines for Weekly Contact Hours Expected to Receive 1 Credit	Minimum Guidelines For Out-of-Class Study Expectation Per 1 Credit
Clinical		Participation in client and client-related services that are an integral part of an academic program. Clinical instruction occurs in or outside an institutional setting and involves work with clients who receive professional services from students serving under direct supervision of a faculty member and/or approved member of the agency staff.	Course maximum enrollments may vary according to accreditation standards, pedagogical limitations, level of offering, availability of clinical sites, etc.	2.0 Hours = 1 credit (2:1) Contact Ratio	4 hours
Directed Study		Faculty and student negotiate an individualized plan of study.	A Directed Study is not to replace an existing course. If a course is offered on an individualized basis the faculty and student complete a Non-Scheduled course form.	0.75 Hour = 1 credit (.75:1) Contact Ratio	1.5 hours
Field Instruction		Instructional activities conducted by the faculty and designed to supplement and/or extend an individual course or classroom experience.		2.5 Hours = 1 credit (2.5:1) Contact Ratio	5 hours
Internship		Applied and supervised field-based learning experience where students gain practical experience following a negotiated and/or directed plan of study.	Student may or may not be paid for Internship.	3.0 Hours = 1 credit (3:1) Contact Ratio	N/A
Lab		Instructional activities conducted by the faculty which require student participation, experimentation, observation or practice.	Course maximum enrollments may vary according to accreditation standards, pedagogical limitations, level of offering, availability of laboratory stations, equipment, etc.	2.0 Hours = 1 credit (2:1) Contact Ratio	4 hours
Lecture		Faculty member responsible for delivery and discussion of learning material and related instructional activities.	Course maximum enrollments may vary by level, discipline, classroom availability,	1.0 Hour = 1 credit (1:1) Contact Ratio	2 hours

			course delivery format (online), etc.		
Physical Educ./ Recreation		Participation in or the performance of some form of physical activity. Knowledge associated with the proper performance of the activity is presented.	Course maximum enrollments may vary by level of instruction, type of activity, safety considerations, availability of facilities, etc.	2.0 Hours = 1 credit (2:1) Contact Ratio	4 hours
Practicum		Practical student work under the supervision of a faculty member or under supervision of a professional in the student's field and regular consultation with faculty member.		2.0 Hours = 1 credit (2:1) Contact Ratio	4 hours
Private Music Instruction		Formal presentation in a one-to-one relationship between student and instructor.	NASM guidelines list .5 = 2 credits (.25 = 1 hour)	0.25 Hour = 1 credit (.25:1) Contact Ratio	0.5 hours
Seminar		A highly focused course that may include student presentations and discussions of reports based on literature, practice, problems, or research (e.g., a capstone course)	Typically at the upper division or graduate level.	1.0 = 1 credit (1:1) Contact Ratio	2 hours
Lab/CTE		Instructional activities involving training for employment with an active faculty teaching role		1.5 Hours=1 credit (1:5) Contact Ratio	3 hours
Student Classroom Observation		Teacher candidates observe, participate in, analyze and reflect on issues in education.		2.0 Hours = 1 credit (2:1) Contact Ratio	4 hours
Studio		Lab-type activities conducted by faculty (e.g., music ensembles, art studio, theatrical productions, etc.)		2.0 = 1 credit (2:1) Contact Ratio	4 hours
Online Delivery				Follows Same Guidelines as Traditional Delivery	
Hybrid Delivery				Follows Same Guidelines as Traditional Delivery	

Most courses in the following sections have prerequisites. Prerequisites are requirements that you must complete before enrolling in the course. You can satisfy prerequisites in one of two ways: 1) by completing prerequisite courses, or 2) by attaining assessment scores that place you ABOVE the listed prerequisite course's skill level.

Restricted Courses

Restricted courses indicate specific course offerings that are limited offerings due to location restrictions. These courses will be indicated with two asterisks (**). Completion of a degree and/or certificate as listed on pages 105-281 is not impacted by restricted courses as the requirements do not include such courses.

GT Pathways Courses

In December 2005, the Colorado Commission on Higher Education established a statewide transfer policy for general education course credits. This policy is also known as GT Pathways which are listed in the table on pages 155-157 under the Degree/Certificate programs section. Although Pueblo Community College does not offer all of the courses listed on pages 155-157 if you are transferring any of these courses to Pueblo Community College from an accredited post-secondary institution, these courses will be accepted at Pueblo Community College.

Accounting

ACC 101

FUNDAMENTALS OF ACCOUNTING

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair/advisor approval. CORQ: ACC 103, BTE 156 highly recommended. 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 102

FUNDAMENTALS OF ACCOUNTING HANDS-ON LAB

2 CR (3 LBV)

CORQ: ACC 101. Covers the practical lab portion of the Fundamentals of Accounting course. Emphasizes the demonstration of recording accounting information discussed in each chapter of ACC 101.

ACC 103

FUNDAMENTALS OF ACCOUNTING LAB

1 CR. (1.5 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. CORQ: ACC 101. Designed as the practical lab portion of the Fundamentals of Accounting course. Emphasizes the demonstration of recording accounting information discussed in each chapter of ACC 101.

ACC 115

PAYROLL ACCOUNTING

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 CR. (4L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption or department advisor/chair approval. 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 CR. (4L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair/advisor approval. 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 CR. (4.5 LBV)

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 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair/advisor approval. 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 CR. (2L)

PRQ: Department chair approval. 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 CR. (1L)

PRQ: ACC 132 @ Volunteer IRS Tax Preparer Certificate at Intermediate Level. This course allows students to prepare actual federal and state income tax returns for individuals in a real time environment.

**ACC 135

SPREADSHEET APPLICATIONS FOR ACCOUNTING

3 CR. (3L)

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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ACC 211

INTERMEDIATE ACCOUNTING I

4 CR. (4L)

PRQ: MAT 121 or MAT 112, ENG 131, ACC 122, CIS 110, successful completion of any CCR course or qualifying placement score or exemption. or ENG 121, or department chair/advisor approval. 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 CR. (4L)

PRQ: ACC 211, CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or ENG 121, or department chair/advisor approval. 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 AND E-BUSINESS

3 CR. (3L)

PRQ: ACC 122, CIS 110, successful completion of any CCR course or qualifying placement score or exemption. ENG 95+, EA 61+ or ENG 121, or department chair/advisor approval. Studies the principles, concepts and tools used in the analysis, design, implementation and integration of accounting systems, internal controls systems and accounting procedures. Key elements of system analysis, business systems design, accounting software selection, and the acquisition and implementation of systems are studied. Techniques and systems for electronic control systems, electronic data interchange, electronic funds transfer and web commerce are explored.

ACC 216

GOVERNMENTAL AND NOT-FOR- PROFIT ACCOUNTING

3 CR. (3L)

PRQ: ENG 131, ACC 122, CIS 110, Successful completion of any CCR course or qualifying placement score or exemption, or ENG 121, or department chair/advisor approval. I. 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 CR. (3L)

PRQ: ACC 122, CIS 110, SS 50+, successful completion of any CCR course or qualifying placement score or exemption, or ENG 121 or department chair/advisor approval. 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 235

COMPUTERIZED ACCOUNTING FOR SMALL BUSINESSES

3 CR. (3L)

PRQ: ACC 101 or ACC 121, CIS 110, SS 50+, successful completion of any CCR course or qualifying placement score or exemption, or ENG 121 or department chair/advisor approval. Introduces a microcomputer package, such as QuickBooks, One-write Plus or similar accounting application, for use in a small business. Focuses on installation, starting the application and converting a manual accounting system to an electronic system. Includes an easy to use bookkeeping system that incorporates all daily transactions and summarizes records in reports for a complete financial picture.

ACC 245

COMPUTERIZED ACCOUNTING WITH A PROFESSIONAL PACKAGE

3 CR. (3L)

PRQ: CIS 110, SS 50+ or ENG 121, successful completion of any CCR course or qualifying placement score or exemption, or ENG 121, EA 61+, or MAT 121, and ACC 101 or ACC 121 or department chair/advisor approval. Integrates accounting principles and practices with a computerized accounting package such as Peachtree, DacEasy, or other professional package. Emphasizes computerized functions of the general ledger and integrated accounts payable, accounts receivable, invoicing and payroll systems.

ACC 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ACC 287

COOPERATIVE EDUCATION

3 CR. (9 INT)

PRQ: Department advisor or department chair approval. 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

AAA 050

SEMESTER SURVIVAL

2 CR. (2L)

PRQ: Instructor or academic advisor approval. Emphasizes basic study skills in order to bolster their chances of completing the current semester successfully.

AAA 075 - 077

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

AAA 090

ACADEMIC ACHIEVEMENT STRATEGIES

3 CR. (3L)

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 098

S.T.E.P.S FOR COLLEGE SUCCESS

2 CR. (1L/1.5 LBV)

Introduces students to the college culture and to campus resources that support academic success. Students will access and use tools in the college portal and learning management system throughout the course. The student's role in achieving academic success will be emphasized through course content that includes practice in goal setting, effective communication, team building, critical and creative thinking techniques, academic and personal management, and application of active learning strategies.

AAA 101

COLLEGE 101: THE STUDENT EXPERIENCE

1 CR. (1L)

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

AAA 109

ADVANCED ACADEMIC ACHIEVEMENT

3 CR. (3L)

PRQ: Instructor or academic advisor approval. Examines theories and practices associated with successful learning to enhance college success. Recommended for new and returning students, this course study areas including 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.

AAA 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

AAA 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

American Sign Language

ASL 101

BASIC SIGN LANGUAGE I

3 CR. (3L)

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

ASL 102

BASIC SIGN LANGUAGE II

3 CR. (3L)

PRQ: Successful completion of ASL 101 or instructor approval. Continues the sequence for students who want to learn basic conversational patterns to communicate with the Deaf community. The material covers basic vocabulary and conversational skills, and aspects of the Deaf culture and community.

ASL 125

FINGERSPELLING

3 CR. (3L)

PRQ: Successful completion of ASL 101, or Instructor approval. Provides the student an opportunity to develop expressive and receptive fingerspelling through various class activities.

ASL 135

CONVERSATIONAL ASL

2 CR. (2L)

PRQ: Successful completion of ASL 102, or Instructor approval. 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 on with ASL 221.

ASL 175-177

SPECIAL TOPICS

0-12 CR.

Exploration of current topics, issues and activities related to one or more aspects of the named discipline.

ASL 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Anthropology

ANT 101

CULTURAL ANTHROPOLOGY: GT-SS3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. Studies human cultural patterns and learned behavior including linguistics, social and political organization, religion, culture and personality, culture change, and applied anthropology. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

ANT 107

INTRODUCTION TO ARCHAEOLOGY: GT-SS3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. Introduces the science of recovering the human prehistoric and historic past through excavation, analysis, and interpretation of material remains. The course provides a survey of the archaeology of different areas of the Old and New Worlds and the works of selected archaeologists, and discusses major archaeological theories. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

ANT 111

BIOLOGICAL ANTHROPOLOGY WITH LABORATORY: GT-SC1

4 CR. (3L/2 LBA)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. 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. This course is approved as part of the Colorado statewide Guaranteed transfer curriculum: GT: SC1.

ANT 121

CULTURES OF THE SOUTHWEST

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Includes the major prehistoric cultures (Paleoindian, Desert Culture, Anasazi, Hohokam, Mogollon) 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 175-177

SPECIAL TOPICS

0-12 CR.

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

ANT 215

INDIANS OF NORTH AMERICA: GT-SS3

3 CR. (3L)

PRQ: Successful completion of ANT 101, or department chair approval. 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

ANT 221

EXPLORING OTHER CULTURES I

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. Provides an anthropological understanding of a selected culture including 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 275-277

SPECIAL TOPICS

0-12 CR.

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

****Apprentice Related Experience**

**ARE 110

CARPENTRY I

4 CR. (1L/3 LBV)

Teaches the carpentry trade, basic safety, construction math, hand and power tools, wood building materials, and basic rigging.

**ARE 112

ELECTRICAL 1

4 CR. (1L/3 LBV)

Presents general safety, tools of the electrical trade, contractor owned tools, trade history and introduces electrical theory, conduit outlet boxes and the National Electrical Code. Explores the sources of electricity, trade math, laws of electricity, series circuits, parallel circuits and series parallel circuits. Other topics include organization of the National Electrical Code, magnetism laws, wire devices, service boxes connectors, conduit bending, conductors and insulators, insulation and pulling large and small wires.

Arch Eng/Construction Mgmt.

AEC 102

RESIDENTIAL CONSTRUCTION DRAWING

4 CR. (2L/3LBV)

PRQ: CAD 202. Investigates 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 121

CONSTRUCTION MATERIALS AND SYSTEMS

3 CR. (3L)

PRQ: EGG 100. 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 123

COMMERCIAL CONSTRUCTION DRAWING

4 CR. (2L/3LBV)

PRQ: CAD 202. 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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

AEC 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Art

ART 107

ART EDUCATION METHODS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Focuses on a multimedia approach to teaching art. Emphasizes strong creative presence, philosophy and techniques in drawing, painting, printmaking, and other media.

ART 110

ART APPRECIATION: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions and terminology. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

ART 111

ART HISTORY ANCIENT TO MEDIEVAL: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Ancient through the Medieval periods. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

ART 112

ART HISTORY RENAISSANCE TO MODERN: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Renaissance to 1900. This course is one of the statewide Guaranteed Transfer courses. GT-AH1.

ART 114

ART SAMPLER

1 CR. (2 STA)

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 121

DRAWING I

3 CR. (6 STA)

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

ART 122

DRAWING FOR THE GRAPHIC NOVEL

3 CR. (6 STA)

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 CR. (6 STA)

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 128

FIGURE DRAWING I

3 CR. (6 STA)

PRQ: Successful completion of ART 121, or department chair approval. Introduces the basic techniques of drawing the human figure.

ART 129

PRINTMAKING I

3 CR. (6 STA)

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 CR. (6 STA)

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 CR. (6 STA)

Focuses on learning to apply the elements and principles of design to three dimensional problems.

ART 133

JEWELRY AND METALWORK I

3 CR. (6 STA)

Introduces the construction of jewelry designs in metals and small casting techniques.

ART 138

FILM PHOTOGRAPHY I

3 CR. (6 STA)

Introduces black and white film photography as a fine art medium and develops skills necessary for basic camera and lab operations.

ART 139

DIGITAL PHOTOGRAPHY I

3 CR. (6 STA)

Presents the fundamentals of fine art digital photography, including camera equipment and software used for image capture, management and manipulation. Topics include camera settings and exposure control, composition, working with light and time, and creative image manipulation.

ART 141

STUDIO PHOTOGRAPHY

3 CR. (6 STA)

Explores the creative uses of studio lighting from the perspective of fine art photography with an emphasis on portraiture, three-dimensional object photography and two-dimensional collage photography.

ART 142

LANDSCAPE PHOTOGRAPHY

3 CR. (6 STA)

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 CR. (6 STA)

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 145

DIGITAL DARKROOM

3 CR. (6 STA)

PRQ: ART 139 or permission of the department chair. 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.

ART 149

MIXED MEDIA I: DIGITAL ART

3 CR. (6 STA)

Course Description: 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 CR. (6 STA)

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 CR. (6 STA)

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 161

CERAMICS I

3 CR. (6 STA)

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

ART 162

HANDBUILT CLAY I

3 CR. (6 STA)

Provides instruction in several methods of hand building and the study of functional and decorative design elements.

ART 163

HANDBUILT CLAY II

3 CR. (6 STA)

Provides continued instruction in various methods of hand building.

ART 165

SCULPTURE I

3 CR. (6 STA)

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

ART 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ART 207

ART HISTORY – 1900 TO PRESENT: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Provides students with the knowledge base to understand the visual arts as related to Modern and Contemporary visual art. Surveys world art of the twentieth century, including Modernism to Post-Modernism. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

ART 208

CULTURE STUDIES

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (6 STA)

PRQ: Department chair approval. Designed for advanced students interested in further exploring an art discipline to develop a more comprehensive portfolio.

ART 210

MARKETING FOR VISUAL ARTS

3 CR. (3L)

PRQ: Successful completion of any 12 credits of Art courses or department chair approval. 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 CR. (3L)

Introduces students to the principles and practices involved in creating and operating arts organizations in the profit and not-for-profit art world.

ART 221

DRAWING II

3 CR. (6 STA)

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

ART 222

DRAWING III

3 CR. (6 STA)

Offers a continued study of expressive drawing techniques and development of individual style, with an emphasis on composition and technique variation.

ART 224

WATERCOLOR II

3 CR. (6 STA)

Continues the study of watercolor techniques, emphasizing original compositions and experimentation with materials. Color theory is included.

ART 228

ADVANCED FIGURE DRAWING

3 CR. (6 STA)

PRQ: Successful completion of ART 128 or department chair approval. Provides continuing study of the various methods of drawing the human figure, with emphasis on the description of form and individual style.

ART 230

COLOR THEORY

3 CR. (6 STA)

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 233

JEWELRY AND METALWORK II

3 CR. (6 STA)

Emphasizes conceptual design development using casting and specialized techniques.

ART 234

JEWELRY AND METALWORK III

3 CR. (6 STA)

Focuses upon advanced work and emphasizes experimentation with materials and techniques, individual designs and superior craftsmanship.

ART 235

JEWELRY AND METALWORK IV

3 CR. (6 STA)

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 238

FILM PHOTOGRAPHY II

3 CR. (6 STA)

This course is a further exploration in film camera and lab operations with an emphasis on individual creativity. It includes the development of a comprehensive portfolio.

ART 239

DIGITAL PHOTOGRAPHY II

3 CR. (6 STA)

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 241

LARGE FORMAT PHOTOGRAPHY

3 CR. (6 STA)

Introduces the visual aesthetics and techniques of view camera photography. Students receive hands-on photographic experience with the 4x5 view camera, process film and produce prints.

ART 250

DIGITAL ART FOUNDATIONS II

3 CR. (6 STA)

PRQ: Successful completion of ART 150 or department chair approval. 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 CR. (6 STA)

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 CR. (6 STA)

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 261

CERAMICS II

3 CR. (6 STA)

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

ART 262

CERAMICS III

3 CR. (6 STA)

Encourages students to develop an individual style of wheel thrown and hand built ceramic forms with continuing involvement in surface treatment.

ART 264

CERAMIC SCULPTURE

3 CR. (6 STA)

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 CR. (6 STA)

Develops an understanding and focus on manipulation of three-dimensional form, with greater concentration on individual creativity and style.

ART 275-277

SPECIAL TOPICS

0-12 CR.

Provides the students with a vehicle to pursue in-depth exploration of special topics of interest.

ART 280

INTERNSHIP

1-12 CR. (1-12 INT)

PRQ: Approval of the department chair. 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 281

CAPSTONE: STUDIO ART II

3 CR. (6 STA)

PRQ: Approval of the department chair. This course is a continuation of Studio Art for advanced students to pursue individual advanced work in any area such as Drawing, Ceramics, Sculpture, Painting and Watercolor for a combination of any two areas with the purpose of enhancing their portfolio.

ART 289

CAPSTONE

2 CR. (4 STA)

PRQ: Approval of Art department chair. Provides a demonstrated culmination of learning within a given program of study.

Astronomy

AST 101

ASTRONOMY I WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: CCR 092, MAT 050. Focuses on the history of astronomy, the tools of the astronomer and the contents of the solar system including the planets, moons, asteroids, comets and meteoroids. Incorporates laboratory experience. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

AST 102

ASTRONOMY II WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: AST 101. Emphasizes the structure and life cycle of the stars, sun, galaxies and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

AST 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

AST 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

****Automotive Collision Technology**

**ACT 101

INTRODUCTION TO AUTOMOTIVE COLLISION TECHNOLOGY

4 CR. (2L/3 LBV)

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 110

SAFETY IN COLLISION REPAIR

2 CR. (1L/1.5 LBV)

Introduces the student to safety techniques and operation as it relates to shop safety and industry standards. The student is exposed to regulations and collision shop operations. In addition, the student becomes involved with VICA, developing writing and speaking skills.

**ACT 111

METAL WELDING AND CUTTING I

3 CR. (1L/3 LBV)

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 is presented.

**ACT 121

NON-STRUCTURAL REPAIR PREPARATION

3 CR (1L/3 LBV)

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 AND REPLACEMENTS

3 CR. (1L/3 LBV)

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 AND BODY FILLING

3 CR. (1L/3 LBV)

Develops skills in 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. Paintless Dent Repair Tools will also be introduced in this course along with beginning level repair techniques.

**ACT 131

STRUCTURAL DAMAGE DIAGNOSIS

3 CR. (1L/3 LBV)

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 is 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

2 CR. (3 LBV)

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 141

REFINISHING SAFETY

1 CR. (1L)

Covers correct use of safety procedures used in refinishing. Proper fit and use of various types of protective equipment is emphasized. The identification of tools and equipment, with use and maintenance is covered including national guidelines for proper disposal and handling of hazardous materials.

**ACT 142

SURFACE PREPARATION I

2 CR. (1L/1.5 LBV)

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 CR. (1L/1.5 LBV)

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 CR. (1L/1.5LBV)

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 is taught for the product being applied. In addition, the student practices correct masking and detailing techniques.

**ACT 151

PLASTICS & ADHESIVES I

1 CR. (.5L/.75 LBV)

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 160**

CUSTOM PAINTING

3 CR. (1L/3 LBV)

This course provides instruction in basic custom paint application such as pearl paints, candy colors, metal flakes, etc.

****ACT 161**

AUTOMOTIVE GRAPHICS AND DESIGNS

3 CR. (1L/3 LBV)

This course provides instruction in the application of graphics and designs to an automotive finish. These designs include striping, flames, paint fades, graphics, etc.

****ACT 162**

AUTOMOTIVE AIR BRUSHING AND MURALS

3 CR. (1L/3 LBV)

This course provides instruction in the use of airbrush equipment to produce murals. Instruction in mural layout background, foreground and fine detail will be provided.

****ACT 163**

AUTOMOTIVE SPECIAL EFFECTS AND REFINISHING

3 CR. (1L/3 LBV)

This course provides instruction in the different types of design effects that can be achieved through special techniques.

****ACT 165**

AUTOMOTIVE BODY CUSTOMIZING I

3 CR. (1L/3 LBV)

Recommended CORQ: ACT 166 AND ACT 167. Covers tool identification welding (mig and resistance), plasma cutting, metal finishing, metal shrinking and the use of cosmetic fillers. Emphasis is placed on the use of proper tools required to perform body customizing tasks, including use, selection and safety procedures for tools and equipment selected.

****ACT 166**

AUTOMOTIVE BODY CUSTOMIZING II

3 CR. (1L/3 LBV)

Recommended PRQ: ACT 165. Covers modification of vehicle and vehicle parts such as Chopping, measuring, realigning, fabricating, recessing, shaping etc.

****ACT 167**

AUTOMOTIVE BODY CUSTOMIZING III

3 CR. (1L/3 LBV)

Recommended PRQ: ACT 165 and ACT 166. Covers the completion of modifications that were started in Automotive Body Customizing II along with the addition of body molding kits.

****ACT 170**

AUTOMOTIVE COLLISION TECHNOLOGY LAB EXPERIENCES I

7 CR. (10 LBV)

Designed to prepare the student to perform basic tasks for a specialized area in a controlled instructional lab.

****ACT 171**

AUTOMOTIVE COLLISION TECHNOLOGY LAB EXPERIENCE II

1-9 CR. (1.5-13.5 LBV)

Course is a continuation of lab experience. Designed to prepare the individual to perform basic tasks for a specialized area in a controlled instructional lab.

****ACT 172**

AUTOMOTIVE COLLISION TECHNOLOGY LAB EXPERIENCES III

1-9 CR. (1.5-13.5 LBV)

Course is a continuation of Lab experience. Designed to prepare the individual to perform basic tasks for a specialized area in a controlled instructional lab.

****ACT 175-177**

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

****ACT 180**

AUTOMOTIVE COLLISION REPAIR INTERNSHIP LEVEL I

1-9 CR. (3-27 INT)

Designed to meet the needs of the student in 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

1-9 CR. (3-27 INT)

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 AND SHOP MANAGEMENT

3 CR. (2L/1.5 LBV)

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 AND CUTTING II

2 CR. (3 LBV)

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 are also presented.

****ACT 220**

STRUCTURAL REPAIR II

4 CR. (2L/3 LBV)

Designed as a continuation of ACT 132 Students continue practice in structural damage analysis and measuring procedures on both, unitized and body-over-frame type vehicles. Proper methods for straightening, as well as replacing structural, mechanical, and electronic components are covered.

****ACT 221**

MOVABLE GLASS AND HARDWARE

2 CR. (1L/1.5 LBV)

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 226**

PRODUCTION

4 CR. (6 LBV)

PRQ: ACT 121, 151, 251. Simulates the actual working procedures of an auto collision repair technician. The student performs a variety of structural and non-structural repairs, as well as refinishing operations in accordance with industry procedures, and in compliance with estimates and flat-rate times from collision estimating guides. Students also develop leadership abilities and time management skills.

****ACT 231**

ADVANCED STRUCTURAL DAMAGE DIAGNOSIS & REPAIR

3 CR. (1L/3 LBV)

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 is 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 CR. (3 LBV)

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 CR. (1L/3 LBV)

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 CR. (1L/1.5 LBV)

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 CR. (1L/1.5LBV)

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 CR. (1L/1.5 LBV)

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 CR. (.75L/.38 LBV)

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 are presented. Sheet Molded Compound procedures and the use of proper adhesives is covered.

**ACT 266

RESTRAINT SYSTEMS

1 CR. (.5L/.75 LBV)

Students learn to inspect, remove and replace active restraint systems, passive restraint systems and supplemental restraint systems. Procedures are demonstrated for disarming and diagnosing restraint systems using electronic equipment and trouble codes. Instruction for passive restraint replacement is also covered in this course.

**ACT 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

**ACT 280

AUTOMOTIVE COLLISION REPAIR LEVEL III INTERNSHIP

1-9 CR. (3-27 INT)

Individualized instruction at job site continues in this final internship. The student is encouraged to develop skills needed to enter employment in the automotive collision repair field.

**ACT 284

AUTOMOTIVE COLLISION REPAIR INTERNSHIP LEVEL IV

1-9 CR. (3-27 INT)

Individualized instruction at job site continues in this final internship. The student is encouraged to develop skills needed to enter employment in the automotive collision repair field.

Automotive Service Technology

ASE 101

AUTO SHOP ORIENTATION

2 CR. (1L/1.5 LBV)

Provides students with safety instruction in the shop and on the automobile. Emphasis is placed on the proper use and care of test equipment, precision measuring and machining equipment, gaskets, adhesives, tubing, wiring, jacks, presses and cleaning equipment and techniques.

ASE 102

INTRODUCTION TO THE AUTOMOTIVE SHOP

2 CR. (2L)

Prepares the incoming automotive student to work in the shop safely and gain familiarity with the shop and common equipment.

**ASE 103

AUTO MATINENANCE I

2 CR. (1L/1.5 LBV)

This course addresses three primary areas of concern for the average car owner. The first is the basics of how various systems on the automobile work. The second is the maintenance required for the vehicle. The third is the financial concerns of owning the vehicle.

ASE 110

BRAKES I

2 CR. (1L/1.5 LBV)

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 CR. (1L/1.5 LBV)

PRQ: ASE 110. 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 AUTO ELECTRICITY

2 CR. (1.5L/.75 LBV)

Introduces vehicle electricity and includes basic electrical theory, circuit designs, and wiring methods. Focuses on multi-meter usage and wiring diagrams.

ASE 122

AUTOMOTIVE ELECTRICAL SAFETY SYSTEMS

1 CR. (1.5 LBV)

Teaches the student to identify operation of vehicle lighting systems, Supplemental Inflatable Restraints (SIR), windshield wiper, driver warning systems and vehicle accessories.

ASE 123

STARTING AND CHARGING SYSTEM

2 CR. (1L/1.5 LBV)

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 124

ADVANCED IGNITION SYSTEM DIAGNOSIS & REPAIR

2 CR. (1L/1.5 LBV)

Focuses on lecture and related laboratory experiences in the diagnosis, service, adjustments and repair of various ignitions systems on customer vehicles.

ASE 130

GENERAL ENGINE DIAGNOSIS

2 CR. (1L/1.5 LBV)

Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors.

ASE 132

IGNITION SYSTEM DIAGNOSIS AND REPAIR

2 CR. (1.5L/.75 LBV)

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 CR. (1L/1.5 LBV)

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 AND STEERING I

2 CR. (1L/1.5 LBV)

Focuses on lecture and related experiences in the diagnosis and service of suspensions and steering systems and their components.

ASE 141

SUSPENSION AND STEERING II

2 CR. (1L/1.5 LBV)

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 151

AUTOMOTIVE MANUAL TRANSMISSION/TRANSAXLES & CLUTCHES

2 CR. (1L/1.5 LBV)

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 CR. (1L/1.5 LBV)

Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all-wheel drive units.

ASE 153

AUTOMOTIVE DRIVE AXLE OVERHAUL

1 CR. (1.5 LBV)

Teaches the student skills to check, inspect, and replace parts necessary to rebuild differential assembly.

ASE 154

MANUAL TRANSMISSION/TRANSAXLE DIAGNOSIS AND REPAIR

1 CR. (1.5 LBV)

Covers operation, diagnosis and repair procedures of manual transmission and transaxle assemblies.

ASE 160

AUTOMOTIVE ENGINE REMOVAL & INSTALLATION

1 CR. (.5L/.75 LBV)

Focuses on lecture and laboratory experiences in the removal and installation procedures of the automotive engine from and into front wheel and rear wheel drive vehicles.

ASE 161

ENGINE REPAIR & REBUILD

3 CR. (1L/3 LBV)

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 162

AUTOMOTIVE ENGINE REPAIR

2 CR. (1L/1.5 LBV)

Covers engine sealing requirements and repair procedures; engine fasteners, bolt torque and repair of fasteners. Course will also cover cooling system and basic engine maintenance.

ASE 163

AUTOMOTIVE COMPONENT REMOVAL AND REPLACEMENT

3 CR. (1L/3 LBV)

Practical methods of removal and installation of engines, transmissions, transfer cases, clutch assemblies, bolt, and thread repair.

ASE 165

AUTOMOTIVE MACHINING

2 CR. (1L/1.5 LBV)

Offers instruction in machining processes on the automotive engine using up-to-date machines to recondition connecting rods, bore engine blocks, machine heads for replaceable guides and seats. Brake drum and disc machining is also discussed.

ASE 170

LABORATORY EXPERIENCE I

1-6 CR. (1.5-9 LBV)

Continues to build upon the principles that are expected to be understood by students.

ASE 171

LABORATORY EXPERIENCE II

1-6 CR (1.5-9 LBV)

Continues to build upon the principles that are expected to be understood by students.

ASE 172

LABORATORY EXPERIENCE III

1-6 CR. (1.5-9 LBV)

Continues to build upon the principles that are expected to be understood by students.

ASE 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ASE 210

AUTOMOTIVE POWER AND ABS BRAKE SYSTEMS

2 CR. (1L/1.5 LBV)

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 CR. (1.5L/.75 LBV)

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 CR. (1L/4.5 LBV)

Provides a comprehensive study of the theory, operation, diagnosis and repair of vehicle accessories.

ASE 231

AUTO/DIESEL COMPUTERS

2 CR. (1L/1.5 LBV)

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 CR. (2L/3 LBV)

Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.

ASE 234

ADVANCED AUTOMOTIVE EMISSIONS

2 CR. (1.5L/.75 LBV)

Provides laboratory experiences with a variety of customer work in the areas that the student received training during previous automotive classes.

ASE 235

DRIVABILITY DIAGNOSIS

1 CR. (.5L/.75 LBV)

Emphasizes lecture and related laboratory experience in diagnostic techniques and the use of diagnostic scan tools, oscilloscopes, lab scopes, multimeters and gas analyzers. Students diagnose live vehicle drivability problems.

ASE 236

ADVANCED DRIVABILITY DIAGNOSIS/REPAIR

4 CR. (2L/3 LBV)

Focuses on lecture and laboratory experiences in the inspection, testing and repair of typical computerized engine control systems on customer vehicles.

ASE 240

SUSPENSION AND STEERING III

2 CR. (1L/1.5 LBV)

Covers operation of steering and power steering systems. It will also include different alignment types and procedures.

ASE 250

AUTOMATIC TRANSMISSION/TRANSAXLE SERVICE

1 CR. (1L)

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 CR. (1L/3 LBV)

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 252

ADVANCED AUTOMATIC TRANSMISSIONS/TRANSAXLES

2 CR. (1L/1.5 LBV)

Provides laboratory experiences with a variety of customer work in the areas that the student received training during previous automotive transmission classes.

ASE 253

ADVANCED MANUAL TRANSMISSION/TRANSAXLES

2 CR. (1L/1.5 LBV)

Focuses on lecture and laboratory experiences in the diagnosis and repair of automotive manual transmissions, transaxles, clutches and their related components on customer vehicles.

ASE 260

ADVANCED ENGINE DIAGNOSIS

2 CR. (1L/1.5 LBV)

Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors related to customer vehicles.

ASE 264

INTRODUCTION AUTOMOTIVE HEATING AND AIR CONDITIONING

1 CR. (1.5 LBV)

Covers basic operation of the Heating and Air Conditioning components.

ASE 265

HEATING AND AIR CONDITIONING SYSTEMS

4 CR. (2L/3 LBV)

Emphasizes lecture and related laboratory experiences in the diagnosis and service of vehicle heating and air conditioning systems and their components.

ASE 275-277

SPECIAL TOPICS

0-12 CR.

Provides the student with a vehicle to pursue in-depth exploration of special topics of interest.

ASE 280

INTERNSHIP: BASIC ELECTRICAL AND ENGINE PERFORMANCE

1 CR. (3 INT)

Focuses on 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 (FAST) Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

ASE 281

INTERNSHIP: BASIC HEAVY DUTY AND POWER TRAIN

1 CR. (3 INT)

Focuses on 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 (FAST) Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

ASE 282

INTERNSHIP: GENERAL (SUMMER)

1 CR. (3 INT)

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 (FAST) Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

ASE 283

INTERNSHIP: ADVANCED ELECTRICAL & ENGINE PERFORMANCE

1 CR. (3 INT)

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 (FAST) Fundamental Automotive Systems Training (Chrysler) or others as required by the program track. The student registers for and takes the (ASE) Automotive Service Excellence based tests for engine performance and electrical systems.

ASE 284

INTERNSHIP: ADVANCED HEAVY DUTY & POWER TRAIN

1 CR. (3 INT)

Focuses on 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 (FAST) Fundamental Automotive Systems Training (Chrysler) or others as required by the program track they are enrolled in. The student registers for and takes the ASE-Automotive Service Excellence based test for brake systems and suspension and steering.

ASE 285

INDEPENDENT STUDY

1-6 CR. (1.5-9 LBV)

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

ASE 287

COOPERATIVE EDUCATION

1-9 CR. (3-27 INT)

Develops practical objectives assigned by an automotive employer providing an on-the-job learning experience at an approved automotive repair facility.

Barber

BAR 103

INTRODUCTION TO HAIR & SCALP

1 CR. (2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces various types of hair, scalp treatments and shampoos. Focuses on recognition and treatment of disorders of hair and scalp, product knowledge and proper massage techniques to help control these disorders and cleanse the hair and scalp. Covers terminology dealing with hair structure scalp and hair disorders. Training is provided in a lab or classroom setting.

BAR 107

INTRODUCTION TO SHAVING, HONING & STROPPING

1 CR. (2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces the general principles of shaving to include hair texture, grain of the beard and analysis of the skin. Theory is combined with the practical application of proper shaving procedures and cutting strokes used on the face.

BAR 108

INTERMEDIATE SHAVING, HONING & STROPPING

1 CR. (2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Focuses on theory and practical training related to mustache and beard designing and trimming. Practical applications are incorporated in specialized classes or in a supervised salon.

BAR 110

INTRODUCTION TO HAIR COLORING

3 CR. (6 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces theory pertaining to law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. Focuses on basic techniques and procedures for the application of hair coloring.

BAR 111

INTERMEDIATE HAIR COLORING

2 CR. (4 CLI)

Emphasizes theory and practical application of color products, formulations of color, and level and shades of color.

BAR 120

INTRODUCTION TO HAIR CUTTING

3 CR. (6 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces theory relevant to patron protection angles and degree and analysis of hair textures related to hair cutting. Covers proper use and care of hair cutting implements. Introduces basic hair cutting techniques using scissors, razor, clippers and thinning shears. Training is provided in a classroom or lab setting with students training on mannequins or models.

BAR 121

INTERMEDIATE HAIR CUTTING

3 CR. (6 CLI)

Focuses on theory related to facial shapes and head and body forms to determine the appropriate haircut. Practical application of hair cutting techniques are explored in specialized classes or in a supervised salon setting.

BAR 130

INTRODUCTION TO HAIR STYLING

3 CR. (6 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Combines theory with the practical application of air forming curling iron, finger waving, soft pressing and hard pressing.

BAR 131

INTERMEDIATE HAIR STYLING

3 CR. (6 CLI)

Focuses on the accepted methods of styling hair, air forming, finger waves and hair pressing.

BAR 140

INTRODUCTION TO PERMANENT WAVES & CHEMICAL RELAXERS

3 CR. (6 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Focuses on the analysis of hair and scalp, proper equipment and product knowledge. Covers basic techniques in permanent waving and chemical relaxing. Incorporates training in a classroom or lab setting on mannequins or models.

BAR 141

INTERMEDIATE PERMANENT WAVES & CHEMICAL RELAXERS

3 CR. (6 CLI)

Focuses on theory and practical application of permanent waves and chemical relaxers in specialized classes or supervised salon setting. Students practice different wrapping techniques that are required by trend styles.

BAR 166

INTRODUCTION TO FACIAL MESSAGES & SKIN CARE

1 CR. (2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Emphasizes basic understanding of facial massage manipulations and the study of skin in both practical and theory applications. Covers the benefits derived from proper facial massage and a good skin care routine.

BAR 167

INTERMEDIATE FACIAL MASSAGE & SKIN CARE

1 CR. (2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Focuses on practical application dealing with anatomy, skin disorders, skin types and facial shapes. Students help patrons select proper skin care treatments

BAR 203

ADVANCED HAIR AND SCALP

1 CR. (2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Focuses on advanced theory and practical training of hair, scalp treatments and shampooing in a supervised salon setting. Advanced techniques prepare the student for employment. Covers student preparation for the State Board Licensing Examination on theory and practical procedures.

BAR 207

ADVANCED SHAVING, HONING & STROPPING

1 CR. (2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Focuses on advanced training in shaving, honing and stropping. Practical and theory application is completed in specialized classes or supervised clinical training. Student will be prepared for State Board license exam.

BAR 211

ADVANCED HAIR COLORING

3 CR. (6 CLI)

Provides continued instruction in advanced practical techniques for hair coloring with emphasis on recognition of color problems and color correction procedures. Covers advanced techniques and product knowledge to prepare the student for employment. Provides instruction for the State Board Licensing Examination pertaining to hair coloring.

BAR 220

ADVANCED HAIR CUTTING

3 CR. (6 CLI)

Provides theory and advanced techniques in all phases of hair cutting to ready the student for employment. Covers student preparation for State Board licensing examination on theory and practical procedures. Training is a combination of supervised work and specialized classes.

BAR 231

ADVANCED HAIR STYLING

3 CR. (6 CLI)

Focuses on theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon (clinical) work and specialized classes. Includes student preparation for the State Board Licensing Examination relating to hairstyling.

BAR 241

ADVANCED PERMANENT WAVES & CHEMICAL RELAXERS

2 CR. (4 CLI)

Focuses on advanced techniques to prepare the student for employment and examines changes in current industry standards. Provides instruction in specialized classes or a supervised salon setting. Covers student preparation for the State Board Licensing Examination pertaining to permanent waves and relaxers.

BAR 266

ADVANCED FACIAL MASSAGE & SKIN CARE

1 CR. (2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Emphasizes anatomy, skin disorders, skin types and facial shapes. Students guide patrons on selection of proper skin care treatments. Covers student preparation for State Board licensing examination on theory and practical procedures.

Biology

BIO 105

SCIENCE OF BIOLOGY WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: CCR 092. Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science – a process of gaining new knowledge – as is the impact of biological science on society. Includes laboratory experiences. Designed for non-science majors. This course is one of the Statewide Guaranteed Transfer courses, GT-SC1.

BIO 106

BASIC ANATOMY AND PHYSIOLOGY

4 CR. (3L/2 LBA)

PRQ: CCR 092. 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, Paramedic Program, and the Medical Office Technology Program.

BIO 111

GENERAL COLLEGE BIOLOGY I WITH LAB: GT-SC1

5 CR. (4L/2 LBA)

PRQ: CCR 092. CORQ: ENG 121. Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function, and the metabolic processes of respiration, and photosynthesis, as well as cell reproduction and basic concepts of heredity. The course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses, GT-SC1.

BIO 112

GENERAL COLLEGE BIOLOGY II WITH LAB: GT-SC1

5 CR. (4L/2 LBA)

PRQ: CCR 092. CORQ: ENG 121. A continuation of Biology I. Includes ecology, evolution, classification, structure, and function in plants and animals. This course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses, GT-SC1.

BIO 116

INTRODUCTION TO HUMAN DISEASE: GT-SC2

3 CR. (3L)

PRQ: CCR 092. Focused analysis of the causes and mechanics of human illness and death will be presented for each of the major human body systems. Selected diseases will be studied in greater detail including etiology, pathogenesis, epidemiology, sociology, and therapy. This course is one of the Statewide Guaranteed Transfer courses, GT-SC2.

BIO 143

ECOLOGY OF COLORADO

3 CR. (3L)

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

BIO 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

BIO 201

HUMAN ANATOMY AND PHYSIOLOGY I WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: BIO 111. Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, nervous and endocrine systems. Includes a mandatory hands-on laboratory experience covering experimentation, microscopy, observations and dissection. This is the first semester of a two-semester sequence. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

BIO 202

HUMAN ANATOMY AND PHYSIOLOGY II WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: BIO 111. Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive and development. Includes a mandatory hands-on laboratory experience involving experimentation, microscopy, observations and dissection. This is the second semester of a two-semester sequence. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

BIO 203

ADVANCED HUMAN ANATOMY

2 CR. (1L/2 LBA)

PRQ: Successful completion of BIO 201 and BIO 202 with a grade of "C" or better. CHE 101 strongly recommended. Examines the gross anatomical structure of the human body and the relationship between form and function. Students will prospect 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 WITH LAB: GT- SC1

4 CR. (3L/2 LBA)

PRQ: BIO 111. Designed for health science majors. Examines microorganisms with an emphasis on their structure, development, physiology, classification and identification. The laboratory experience includes culturing, identifying and controlling microorganisms with an emphasis on their role in infectious disease. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

BIO 216

HUMAN PATHOPHYSIOLOGY

4 CR. (4L)

PRQ: BIO 201, BIO 202, BIO 204. Focuses on the alterations in physiological, cellular and biochemical processes, the associated homeostatic response, and the manifestations of disease. Prior knowledge of cellular biology, anatomy and physiology is essential for the study of pathophysiology.

BIO 269

NUCLEIC ACID TECHNIQUES AND MOLECULAR CLONING

4 CR. (3L/2 LBA)

PRQ: Successful completion of BIO 111, CHE 111, and MAT 121 with a grade C or better. Introduces Recombinant DNA technology as used in Biomedical Research. Covers basic information on the structure and function of DNA as a genetic material before students are guided through a research project involving the isolation and sequence analysis of a gene. Students perform hands-on laboratory techniques on non-infectious material to include PCR, gel electrophoresis, molecular cloning and automated DNA sequencing.

BIO 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Business

BUS 102

ENTREPRENEURIAL OPERATIONS

3 CR. (3L)

Covers the major aspects of small business management to enable the entrepreneur to successfully begin his own business. This course provides the basic concepts of marketing, principles of management and finance needed to manage a small business. Further it develops the business plan and suggests methods of obtaining the financing required to launch the business.

BUS 115

INTRODUCTION TO BUSINESS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department advisor/chair approval. 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 116

PERSONAL FINANCE

3 CR. (3L)

Surveys the basic personal financial needs of most individuals. Emphasizes the basics of budgeting and buying, saving and borrowing money, the intricacies of home ownership, income tax and investments, and the wise use of insurance, wills and trusts.

**BUS 118

BUSINESS SURVIVAL SKILLS

3 CR. (3L)

Provides an overall perspective for the student to understand the current domestic and world business environment and how the student as an employee fits into that environment. Roles and responsibilities of the business and the employees will be studied especially as they relate to alternatives for increasing positive impact in the workplace. The focus will be on practical skills application.

**BUS 121

BASIC WORKPLACE SKILLS

1 CR. (1L)

Examines techniques for communicating effectively on the job including both verbal and written communication; identifies the roles of individuals and companies and necessary critical thinking and problem solving skills; examines relationship skills, effective self-presentation, and workplace issues such as sexual harassment, stress, and substance abuse.

BUS 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

BUS 181

INTERNSHIP

0-6 CR. (0-18 INT)

Provides students with hands-on training in their career field. Occurs in a business setting arranged through a Student Work Experience (SWE)/Internship Coordinator, or by utilizing a current employment organization. Student is expected to work a minimum of 7.5 hours per week. Students attend 3 seminars during the semester of enrollment. Class utilizes cooperative work experience or project methods depending on the individual situation.

BUS 204

INTRODUCTION TO E-BUSINESS

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department advisor/chair approval. 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 multifunction software tools. Students gain a heightened awareness of emerging technologies and trends in e-business.

BUS 216

LEGAL ENVIRONMENT OF BUSINESS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department advisor/chair approval. 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 CR. (3L)

PRQ: CIS 110, ENG 121, or equivalent assessment test score or Department Advisor or department chair approval. Emphasizes effective business writing and covers letters, memoranda, reports, application letters and resumes. Includes the fundamentals of business communication and an introduction to international communication.

BUS 226

BUSINESS STATISTICS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department advisor/chair approval. Focuses on statistical study, descriptive statistics, probability, and the binomial distribution, index numbers, time series, decision theory, confidence intervals, linear regression and correlation. Intended for the business major.

BUS 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

BUS 287

COOPERATIVE EDUCATION

0.5-6 CR. (1.5-18 INT)

PRQ: Department advisor/chair approval. Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work stations related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator.

Business Technologies

BTE 100

COMPUTER KEYBOARDING

1 CR. (.5L/.75 LBV)

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. S/U

BTE 102

KEYBOARDING APPLICATIONS I

2 CR. (1L/1.5 LBV)

PRQ: BTE 100 or Instructor or department chair approval. Designed for students with minimal keyboarding skills. Introduces letters, tables, memos, and manuscripts. Emphasizes speed and accuracy.

BTE 103

KEYBOARDING APPLICATIONS II

3 CR. (2L/1.5 LBV)

PRQ/CORQ: BTE 102, CIS 135, CIS 110 or equivalent assessment test score, or department chair approval. Reinforces basic keyboarding formats and procedures. Productivity and decision-making skills are exercised. Emphasizes speed and accuracy.

BTE 108

TEN-KEY BY TOUCH

1 CR. (1L)

PRQ: CIS 110 or equivalent assessment test score, or department chair approval. Introduces touch control of the ten-key pad. Emphasizes the development of speed and accuracy using proper technique.

BTE 111

KEYBOARDING SPEEDBUILDING I

2 CR. (2L)

PRQ: BTE 100 or instructor approval, CIS 110 or equivalent assessment test score, or department chair approval. Designed to increase speed and improve accuracy in keyboarding on the PC through the use of correct techniques and concentrated effort.

BTE 112

KEYBOARDING SPEEDBUILDING II

2 CR. (3 LBV)

PRQ: BTE 111. Continues the skill building sets from BTE 111. This course is designed to further increase speed and improve accuracy in keyboarding on the PC through the use of correct techniques and concentrated effort.

BTE 116

FILE MANAGEMENT

1 CR. (1L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Provides instruction principles, organization, and procedures for alphabetic, numeric, subject, chronological and geographic systems of filing.

BTE 120

INTRODUCTION TO BUSINESS PRACTICES

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Examines business practices in the workplace.

BTE 125

RECORDS MANAGEMENT

3 CR. (4.5 LBV)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department advisor/chair/instructor approval. Instructs on how records are created, stored and retrieved. Covers the basic filing rules - classifying, indexing, coding, storing, and retrieving as applied to basic methods - alphabetic, chronological, subject, numeric, and geographic. Emphasizes hands-on records management through the use of simulations, which includes manual and/or computer software.

BTE 128

LEGAL TERMINOLOGY

1 CR. (1L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Allows students to develop a basic legal terminology background. Students learn the state, federal, and local court structures.

BTE 156

BUSINESS MATHEMATICS WITH CALCULATORS

4 CR. (3L/1.5 LBV)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Covers basic business mathematics using the touch system on electronic calculators to solve business problems.

BTE 166

BUSINESS EDITING SKILLS

3 CR. (3L)

PRQ: CIS 110 or equivalent assessment test score, ENG 113, or department chair approval. Provides proofreading techniques and reviews spelling, punctuation, grammar and word processing formats on various types of business documents and worksheets.

BTE 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

**BTE 202

OFFICE SIMULATION I

3 CR. (1L/3 LBV)

Provides experience in using in-basket exercises typical of those occurring in an office operation. It focuses on procedures and computer skills needed for successful performance in the workplace.

**BTE 203

OFFICE SIMULATION II

3 CR. (1L/3 LBV)

Provides the student the opportunity to demonstrate and perfect the computer skills, organizational skills, and communication skills required to secure employment and/or advancement in the workplace.

BTE 204

KEYBOARDING APPLICATIONS III

3 CR. (2L/1.5 LBV)

PRQ: BTE 103, CIS 135, BTE 166 and 45 wpm, CIS 110 or equivalent assessment test score, or department chair approval. Produces mailable computer printouts from straight-copy, rough-draft, and simulated office projects and develops the ability to make decisions without direct supervision.

BTE 211

LEGAL FORMATTING

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Introduces keyboarding and formatting legal correspondence, legal instruments and court documents and provides an introduction to legal procedures.

BTE 213

INTRODUCTION TO LEGAL OFFICE PROCEDURES

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Simulates a typical legal office and acquaints students with the tasks and responsibilities performed in a legal office environment and shows how these tasks relate to the court system.

BTE 225

OFFICE MANAGEMENT

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Emphasis is placed on functions of the office. Includes office organization, work in the office, office layout, equipment and supplies, procurement and control, work flow, forms design, record storage and retrieval systems, personnel administration and problems, and government control.

BTE 229

LEGAL TRANSCRIPTION

3 CR. (1L/3 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, BTE 128, CIS 135, BTE 103, CIS 110, or department chair approval. Prepares students to work as legal transcriptionists. Students transcribe a variety of legal documents and develop a legal vocabulary.

BTE 238

LEGAL OFFICE PROCEDURES

3 CR. (2L/1.5 LBV)

PRQ: 40 wpm, BTE 128, CIS 135. Designed for students who will be working in a legal office either in the private or the public sector. Covers fundamental office procedures found in both general and specialized law offices.

BTE 239

BILLING SYSTEMS: PC LAW

3 CR. (3L)

Introduces the fundamental applications of PC Law software as used for time, billing, and accounting.

BTE 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

BTE 287

COOPERATIVE EDUCATION/INTERNSHIP

0.5-6 CR. (.75-9 COP)

PRQ: CIS 110 or equivalent assessment test score, or department chair approval. 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.

Carpentry

**CAR 100

INTRODUCTION TO CARPENTRY

1 CR. (1L)

Provides a basic introduction to construction work for all crafts. This course specifically applies to construction sites.

**CAR 101

BASIC SAFETY

1 CR. (1L)

An overview of safety concerns and procedures in the construction field.

**CAR 105

JOB SITE LAYOUT AND BLUEPRINT READING

1 CR. (.5L/.75 LBV)

Introduces blueprint reading and how they apply to the construction site. Includes in-depth introduction to site layout (materials and methods).

**CAR 121

FLOOR FRAMING

1 CR. (.25L/1.12 LBV)

Covers framing basics as well as the procedures for laying out and constructing a wood floor using common lumber as well as engineered building materials.

**CAR 122

WALL FRAMING

1 CR. (.25L/1.12 LBV)

Focuses on the procedures for laying out and framing walls and ceilings, including roughing-in door and window openings, construction corners and partition Ts, bracing walls and ceilings, and applying sheathing.

**CAR 123

ROOF FRAMING

1 CR. (.25L/1.12 LBV)

Describes the various kinds of roofs and contains instructions for laying out rafters for gable roofs, hip roofs and valley intersections. Coverage includes both stick-built and truss-built roofs.

**CAR 130

WINDOWS AND EXTERIOR DOORS

1 CR. (1L)

Describes the various types of windows, skylights and exterior doors and provides instructions for installing them. Includes instructions for installing weather-stripping and locksets.

**CAR 140

STAIR CONSTRUCTION/LAYOUT

1 CR. (.5L/.75 LBV)

Covers the various types of wooden stairs used in residential and commercial construction, along with procedures for laying out stairs, cutting out stringers and installing and finishing stairs.

CAR 170

CLINICAL: CONSTRUCTION LAB I

1 CR. (2 CLI)

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 171

CLINICAL: CONSTRUCTION LAB I

1 CR. (2 CLI)

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 172

CLINICAL: CONSTRUCTION LAB I

1 CR. (2 CLI)

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CAR 180
INTERNSHIP
5 CR. (15 INT)

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.

CAR 181
INTERNSHIP
6 CR. (18 INT)

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.

CAR 270
CLINICAL: CONSTRUCTION LAB I
1 CR. (2 CLI)

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 271
CLINICAL: CONSTRUCTION LAB I
1 CR. (2 CLI)

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 272
CLINICAL: CONSTRUCTION LAB I
1 CR. (2 CLI)

Continues to build upon the principles that are expected to be understood by students in the construction discipline.

CAR 275-277
SPECIAL TOPICS
0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CAR 280
INTERNSHIP
5 CR. (15 INT)

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.

CAR 281
INTERNSHIP
6 CR. (18 INT)

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.

Chemistry

CHE 101
INTRODUCTION TO CHEMISTRY I WITH LAB: GT-SC1
5 CR. (4L/2 LBA)

PRQ: CCR 092, MAT 055. Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

CHE 102
INTRODUCTION TO CHEMISTRY II WITH LAB: GT-SC1
5 CR. (4L/2 LBA)

PRQ: CHE 101. Focuses on introductory organic and biochemistry (sequel to Introduction to Chemistry I). This course includes the study of hybridization of atomic orbitals for carbon, nomenclature of both organic and biochemical compounds, physical and chemical properties of various functional groups of organic chemistry, and physical and chemical properties of biochemical compounds along with their biochemical pathways. Laboratory experiments are included. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

CHE 104
CONCEPTS OF CHEMISTRY I
4 CR. (3L/2 LBA)

PRQ: CCR 092, MAT 050. Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, and gas laws. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background. This course has no lab and may not be transferable. Equivalent of CHE 101 lecture.

CHE 105

CHEMISTRY IN CONTEXT WITH LAB: GT-SC1

5 CR. (4L/2 LBA)

PRQ: CCR 092, MAT 050. Covers the study of measurements, matter, molecules, atoms, chemical bonding, nomenclature, energy, acids, bases, and nutrition. Course work examines chemistry in the modern world and surveys the current knowledge as well as the conceptual framework of the discipline. Chemistry as a science is explored, as is the impact of chemistry on society. This course includes laboratory experience and is designed for non-science majors. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

CHE 109

GENERAL, ORGANIC, AND BIOCHEMISTRY

4 CR. (4L)

PRQ: CCR 092, MAT 050. Focuses on fundamentals of inorganic, organic and biochemistry primarily for students in health science, non-science majors and/or students in the occupational and health related career areas. Includes the study of measurement, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base chemistry, gas laws, condensed states of matter and nuclear chemistry, nomenclature of organic compounds, properties of different functional groups, nomenclature of various biological compounds, their properties and biological pathways. This course has no lab and may not be transferable.

CHE 111

GENERAL COLLEGE CHEMISTRY I WITH LAB: GT-SC1

5 CR. (4L/2 LBA)

PRQ: CCR 092, MAT 121, CHE 101. CORQ: ENG 121. Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry and thermochemistry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory and molecular orbital theory. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

CHE 112

GENERAL COLLEGE CHEMISTRY II WITH LAB: GT-SC1

5 CR. (4L/2 LBA)

PRQ: CHE 111 ENG 121. Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, electrochemistry, nuclear chemistry, and organic chemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

CHE 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CHE 211

ORGANIC CHEMISTRY I WITH LAB

5 CR. (4L/2 LBA)

PRQ: Successful completion of CHE 112 with a grade of "C" or better. Focuses on compounds associated with the element carbon including structure and reactions of aliphatic hydrocarbons and selected functional group families. The course covers nomenclature of organic compounds, stereochemistry, reaction mechanisms such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry.

CHE 212

ORGANIC CHEMISTRY II WITH LAB

5 CR. (4L/2 LBA)

PRQ: Successful completion of CHE 211 with a grade of "C" or better. Explores the chemistry of carbon-based compounds, their reactions and synthesis including the structure, physical properties, reactivities, and synthesis of organic functional groups not covered in Organic Chemistry I. The course explores functional groups including alcohols, ethers, aromatics, aldehydes, ketones, amines, amides, esters, and carboxylic acids and the reactions and reaction mechanisms of aromatic compounds. An introduction to biochemical topics may be included if time permits. Laboratory experiences demonstrate the above concepts and the laboratory techniques associated with organic chemistry.

CHE 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CHE 285

INDEPENDENT STUDY

0-12 CR. (0-24 IND)

PRQ: Approval of department chair. Provides the opportunity for the highly motivated student to engage in intensive study and research on a specified topic under the direction of a faculty member. Allows a student to complete a course in a semester when the course has not been offered or has been canceled. The option to make independent study available is at the discretion of qualified faculty and the department chair. The student is limited to the number of independent study courses taken per semester.

College Composition & Reading

CCR 091

COLLEGE COMPOSITION AND READING

1 CR. (1.5 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 092. Supports skill development for students registered in CCR 092 College Composition and Reading who score below RC 40 or SS 50. Topics covered in the course include those defined in CCR 092 and/or any foundational skills needed by the student. Any student enrolled in CCR 091 is required to co-enroll in CCR 092.

CCR 092

COLLEGE COMPOSITION AND READING

5 CR. (5L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 093

STUDIO D

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: Linked 100 level course in Communication, Science, Social Science or Arts and Humanities. Integrates and contextualizes reading and writing strategies tailored to a co-requisite 100-level course within one or more of the four discipline strands. The four discipline strands are defined as: Communications, Science, Social Science, and Arts and Humanities. Non-GT courses are not eligible for this consideration. Students will read and understand complex discipline-specific materials, and respond to ideas and information through writing informative and/or persuasive texts.

CCR 094

STUDIO 121

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: Linked 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

**COM 105

CAREER COMMUNICATION

3 CR. (3L)

Develops skills needed in obtaining and keeping a job. Includes job searching, applications, resumes, interviews, and the dynamics of customer, peer and managerial relationships. Emphasizes speaking, writing, listening, critical reading skills and vocabulary development essential to the employment world.

COM 115

PUBLIC SPEAKING

3 CR. (3L)

PRQ: CCR 092. Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 125

INTERPERSONAL COMMUNICATION

3 CR. (3L)

PRQ: 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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

COM 215

GENDER COMMUNICATIONS

3 CR. (3L)

PRQ: CCR 029 or CCR 093 or Placement into ENG 121. CORQ: CCR 094. Examines contemporary theories and research in gendered communication. The course will involve reading and discussion in areas of gender differences in self-perception, social and media images of men and women, language usage and nonverbal behavior differences among genders. Relevant concepts include verbal communication, nonverbal communication, context, language, perception, and conflict.

COM 216

ADVANCED PUBLIC SPEAKING

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. Emphasizes the continued study of rhetorical theory and analysis as it relates to public speaking.

COM 217

GROUP COMMUNICATION

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or English 121. Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation.

COM 220

INTERCULTURAL COMMUNICATION: GT-SS3

3 CR. (3L)

PRQ: 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, worldview, context, ethics, language and nonverbal communication. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

COM 226

ORAL INTERPRETATION

3 CR. (3L)

Exposes the student to the artistic, interpretive, and communicative potential to be found in the reading and performance of great literature and rhetoric such as is found in prose, poetry, drama.

COM 262

COMMUNICATING WITH IMPOSSIBLE PEOPLE

1 CR. (1L)

Introduces participants to the concepts regarding communication with “impossible” people and techniques to deal with them more effectively. Emphasizes active participation in skill-building activities.

COM 263

CONFLICT RESOLUTION

1 CR. (1L)

Focuses on handling conflict productively. Students gain insights into the roots of conflict and engage in skill practice in mediating interpersonal conflicts. The emphasis is on conflict prevention.

COM 264

NEGOTIATION

1 CR. (1L)

Focuses on protecting your interests and those of others while preserving relationships. Examines role-playing and other dynamic techniques and incorporates negotiation skills for personal and professional situations.

COM 268

PROBLEM SOLVING

1 CR. (1L)

Focuses on solving problems in our personal and professional lives and developing the ability to think and act creatively in responding to a variety of situations. Introduces several different perspectives for group and individual problem solving and explores real situations and simulations.

COM 269

LEADERSHIP

1 CR. (1L)

Emphasizes the essential skills and attributes of leadership. Through lectures, activities and readings, the students will understand the differences between leadership and management, how theory leads to practice, and the appropriate leadership style to use according to the situation.

COM 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

COM 289

CAPSTONE

2 CR. (2L)

PRQ: Must Have nine credits completed with a grade of "C" or higher towards the Certificate of Professional Communication or approval of the English & communication Department Chair. Provides a demonstrated culmination of learning within a given program of study.

Computer Aided Drafting

CAD 101

COMPUTER AIDED DRAFTING I

3 CR. (1L/3 LBV)

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 CR. (4.5 LBV)

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 153

INTRODUCTION TO CREA BASICS

3 CR. (1L/3 LBV)

PRQ: CAD operation experience. Introduces basic Creo software and its operations such as part, assembly, and drawing creation. The student learns to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models. Creo is a 3D Parametric Solid Modeling program.

CAD 155

CREO ADVANCED

3 CR. (1L/3 LBV)

PRQ: CAD 153. Introduces advanced applications of the 3D parametric software Creo. Focuses on advanced part creation, drawing manipulation, advanced assembly techniques, documentation of bill of materials and parts lists, rendering, animation, and part and assembly analysis.

CAD 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CAD 202

COMPUTER AIDED DRAFTING/3D

3 CR. (1L/3 LBV)

PRQ: CAD 101 or instructor approval. 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 219

3DS MAX

3 CR. (1L/3 LBV)

PRQ: CAD 101 or Instructor approval 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 CR. (1L/3 LBV)

PRQ: 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 255

SOLIDWORKS/MECHANICAL

3 CR. (1L/3 LBV)

PRQ: Instructor approval. Introduces parametric feature-based solid modeling 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 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Computer Information Systems

CIS 101

ALTERNATIVE INPUT/OUTPUT FOR COMPUTERS

1 CR. (1.5 LBV)

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 CR. (4.5 LBV)

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 CR. (4.5 LBV)

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 CR. (1.5 LBV)

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

INTRO TO COMPUTING TECHNOLOGY

1 CR. (1 LBV)

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 112

MOBILE COMPUTING WITH LAPTOPS

1 CR. (1.5 LBV)

Introduces the student to laptop computers. The course includes the special features of laptop computers that differentiate them from desktop computers. The course allows the student to make use of the ability of a laptop computer to be used at many locations with wireless connections. Students are taught the uses of the special hardware available for laptop computers, and are taught how to install and use various software on them.

CIS 114

COMPUTING FOR HEALTH IT

3 CR. (3 L)

PRQ: Department chair approval. This is an introductory course in Computer Information Systems for health care professionals. The focus of the class will be on computers as applied to health care needs. The class will cover data representation, data communication, data storage, networking architecture and security. Network security will be covered as it relates to electronic health records and health care privacy issues. The class will provide an introduction to computer programming and database management.

CIS 115

INTRODUCTION TO COMPUTER INFORMATION SYSTEMS

3 CR. (3L)

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

INTRO TO PC APPLICATIONS

3 CR. (2L/1.5 LBV)

PRQ: CIS 110 or equivalent assessment test score.

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 124

INTRO TO OPERATING SYSTEMS

3 CR. (2L/1.5 LBV)

CORQ: CIS 110 or equivalent assessment test score.

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 _____

3 CR. (2L/1.5 LBV)

PRQ: CIS 110 or equivalent assessment test score.

Introduces the functions and capabilities of an operating system, including configuring and modifying the operating system environment.

CIS 130

INTRODUCTION TO INTERNET

1 CR. (1.5LBV)

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 email. Explores searching the Internet and credibility of information obtained with searches.

CIS 131

WORD PROCESSING I

1 CR. (1L)

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. S/U

CIS 135

COMPLETE PC WORD PROCESSING

3 CR. (2L/1.5 LBV)

PRQ: CIS 110 or equivalent assessment test score, 30 wpm. BTE 102 highly recommended. Explores a complete array of word processing skills. The skills needed to create, edit, format and printing documents are covered. Other topics include character, spelling checkers and thesaurus, hyphenation, tables, mail merge, document design and graphics.

CIS 140

MICROSOFT OUTLOOK

1 CR. (.5L/.75 LBV)

PRQ: CIS 110 or equivalent assessment test score, BTE 102, CIS 128. Introduces the functions used in Microsoft Outlook including e-mail messages, calendar, contacts, tasks, journals and notes.

CIS 141

PC DATABASE I: (SOFTWARE)

1 CR. (1.5 LBV)

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 CR. (2L/1.5 LBV)

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 CR. (2L/1.5 LBV)

PRQ: CIS 145. Covers the PC database concepts necessary to create database applications. Includes programming, shared files, resource locking, and database recovery.

CIS 149

MICROSOFT OFFICE SPECIALIST CERTIFICATION PREP: ACCESS

1 CR. (1.5 LBV)

Prepares students for the Microsoft Office Specialist certification examination for Access. Students use software to determine strengths and weaknesses and elect to review and prepare for the Core level certification exam.

CIS 151

PC SPREADSHEETS I: (SOFTWARE)

1 CR. (1.5 LBV)

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 155

PC SPREADSHEET CONCEPTS: (SOFTWARE PACKAGE)

3 CR. (2L/1.5 LBV)

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 159

MICROSOFT OFFICE SPECIALIST CERTIFICATION PREP: EXCEL

1 CR. (1.5 LBV)

Prepares students for the Microsoft Office Specialist certification examination for Excel. Students use software to determine strengths and weaknesses and elect to review and prepare for either the Core or Expert level certification exam. The MOS test is not included in this course.

CIS 161

PRESENTATION GRAPHICS I: (SOFTWARE)

1 CR. (.5L/.75 LBV)

PRQ: CIS 110 or equivalent assessment test score, CIS 128, BTE 102. Introduces the development of presentation graphics materials including graphs, charts, illustrations and diagrams. Emphasizes effective communication.

**CIS 165

COMPLETE PRESENTATION GRAPHICS

3 CR. (3L)

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 167

DESKTOP PUBLISHING: (SOFTWARE)

3 CR. (2L/1.5 LBV)

Introduces the concepts and applications for desktop publishing using word processing software. Emphasizes page layout and design with techniques for incorporating text and graphics and final production of printed documents.

CIS 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CIS 178

SEMINAR/WORKSHOP

1-6 CR. (1-6 SEM)

Provides students with an experiential learning experience.

CIS 218

ADVANCED PC APPLICATIONS

3 CR. (2L/1.5 LBV)

PRQ: CIS 118 or Instructor approval. Covers the advanced capabilities of a PC software applications suite. Emphasizes solving business problems by integrating data from all of the software applications that facilitate the production of useful information. Printed documents, reports, slides and forms are produced to communicate information.

CIS 220

FUNDAMENTALS OF UNIX

3 CR. (2L/1.5 LBV)

Covers the structure and fundamentals of the UNIX operating system. Includes the files system and file processing, various utility programs, and shell, multi-user operation, text processing and communications.

CIS 240

DATABASE DESIGN AND DEVELOPMENT

3 CR. (3L)

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 241

ADVANCED DATABASE DESIGN AND DEVELOPMENT

3 CR. (3L)

PRQ: CIS 240. Continues work started in CIS 240 Database Design and Development. Surveys the two common types of databases, relational and object oriented. Covers transactions and concurrency, database administration and backup and database applications.

CIS 243

INTRODUCTION TO SQL

3 CR. (2L/1.5 LBV)

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 268

SYSTEMS ANALYSIS AND DESIGN I

3 CR. (3L)

PRQ: CIS 115 and one programming language course. 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 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CIS 287

COOPERATIVE EDUCATION

1-12 CR. (3-36 INT)

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

CIS 289

CAPSTONE

1-6 CR. (3-18 INT)

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 & Networking Tech

CNG 101

NETWORKING FUNDAMENTALS

3 CR. (3L)

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 CR. (3L)

Introduces Local Area Networking. Focuses on discussions and demonstrations of planning, installing and supporting networks.

CNG 103

WIDE AREA NETWORKS

3 CR. (3L)

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

INTRO TO TCP/IP

3 CR. (3L)

Covers the basic elements of the Transmission Control Protocol and the Internet Protocol, the basic technologies that implement the Internet and computer networking. In addition to TCP and IP the course covers networking media, link layer, network layer and transport layer protocols. Also included are routing, broadcast, multicast and network address translation. IP version 4 and IP version 6 are both covered.

CNG 105

INTERNET TECHNOLOGIES

3 CR. (3L)

Outlines the important Internet technologies in use today. Focuses on the major components and functions of each of these technologies as well as methods used to connect different technologies. Provides the students with concepts that are important to the field of systems integration with the Internet as well as a conceptual basis for understanding Internet technologies.

CNG 108

NETWORK ANALYSIS AND DESIGN

3 CR. (3L)

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 CR. (2L/3 LBV)

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 CR. (2L/3 LBV)

PRQ: CNG 121 or department chair approval. Provides students with an in-depth look at desktop and mobile Operating System support, maintenance and troubleshooting, and an overview of 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 current operating systems, including using common GUI and command line tools, registry editing, system backup and recovery, and advanced troubleshooting. This course helps prepare you for the second CompTIA A+ Exam.

CNG 123

NETWORK SERVER BASICS: SERVER+

3 CR. (2L/1.5 LBV)

Provides students who are preparing for roles as network support technicians with skills training in the support of multiprocessor computers and high-capacity data storage systems typical of servers used in medium to large-scale networks.

CNG 124

NETWORKING I: NETWORK +

3 CR. (2L/1.5 LBV)

Provides students with the knowledge necessary to understand, identify and perform necessary tasks involved in supporting a network. Covers the vendor-independent networking skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP. This course also prepares students for the Networking II: Network + course.

CNG 125

NETWORKING II: NETWORK +

3 CR. (2L/1.5 LBV)

Continues to provide students with the knowledge necessary to implement and support a network. Focuses on the vendor-independent networking skills and concepts that affect all aspects of networking. The Networking I and II: Network + courses prepare students for the Network + certification.

CNG 131

PRINCIPLES OF INFORMATION ASSURANCE

3 CR. (2L/1.5 LBV)

Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, email, 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 132

NETWORK SECURITY FUNDAMENTALS

3 CR. (2L/1.5 LBV)

Examines the field of information security to prepare information systems students for their future roles as business decision-makers. The course presents a balance of the managerial and the technical aspects of information security. The concepts covered in this course should be helpful for students working towards the Certified Information Systems Security Professional (CISSP) certification.

CNG 133

NETWORK SECURITY: FIRE WALLS AND INTRUSION DETECTION AND NETWORK SECURITY

3 CR. (2L/1.5 LBV)

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 136

GUIDE TO DISASTER RECOVERY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Presents methods to identify vulnerabilities and take appropriate countermeasures to prevent and mitigate failure risks for an organization. It will take an enterprise-wide approach to developing a disaster recovery plan.

CNG 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CNG 212

CONFIGURING WINDOWS SERVER

4 CR. (3L/1.5 LBV)

Provides students with the knowledge and skills that are required to install and configure a Microsoft Windows Server. This course helps prepare students for a MTA (Microsoft Technology Associate) and/or MCSA (Microsoft Certified Solutions Associate) exams.

CNG 224

MICROSOFT WINDOWS WIRELESS NETWORK

3 CR. (2L/1.5 LBV)

PRQ: CNG 104 or instructor approval. Provides the student with the Microsoft official curriculum from the Microsoft Regional Academy. Offers detailed instruction on the foundation concepts and technologies of wireless data networking. Upon completion of this course, students are prepared to take the Certified Wireless Network Administrator (CWNP) Certification Exam.

CNG 251

ANTI VIRUS CONCEPTS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Prepares the student for virus eradication. Focuses on how viruses work, how they are designed and how viruses are written. Emphasizes virus eradication and cleaning.

CNG 254

DATA ENCRYPTION

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Exposes the student to data encryption models. Examines the differences between data storage including Microsoft, Novell Netware and UNIX. Includes encryption and data transmission. Covers encryption over various networks including the Internet.

CNG 256

VULNERABILITY ASSESSMENT I

3 CR. (2L/1.5 LBV)

PRQ: CIS 220, CNG 124, and CNG 132. Presents students with an introduction to vulnerability assessment. Vulnerability assessment skills are necessary to understand how companies address vulnerabilities in the business environment. Students gain a better understanding of how information technology security integrates into the corporate world and how a balance must be achieved between security and functionality.

CNG 257

NETWORK DEFENSE AND COUNTER MEASURE

3 CR. (2L/1.5 LBV)

PRQ: CNG 104 or Instructor approval. 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 CR. (1L/4.5 LBV)

PRQ: CNG 124; CORQ: CIS 220. 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 analyses.

CNG 260

CISCO NETWORK ASSOCIATE I

5 CR. (5L)

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 CR. (5L)

PRQ: CNG 260. Introduces the architecture, components and operations of routers and switches.

CNG 262

CISCO NETWORK ASSOCIATE III

5 CR. (5 L)

PRQ: CNG 261. 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 CR. (5 L)

PRQ: CNG 262. Implements WAN technologies and network services required by converged applications in a complex switched and routed networks.

CNG 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Computer Science

CSC 119

INTRODUCTION TO PROGRAMMING

3 CR. (2L/1.5 LBV)

Focuses on a general introduction to computer programming. Emphasizes the design and implementation of structured and logically correct programs with good documentation. Focuses on basic programming concepts, including numbering systems, control structures, modularization and data processing. A structured programming language is used to implement the student's program designs.

CSC 160

COMPUTER SCIENCE I: (LANGUAGE)

4 CR. (3L/1.5 LBV)

PRQ: CSC 116 or Instructor approval. Introduces students to the discipline of computer science. Covers algorithm development, data representation, logical expressions, sub-programs and input/output operations using a structured programming language. Requires intensive lab work outside of class time.

CSC 161

COMPUTER SCIENCE II: (LANGUAGE)

4 CR. (3L/1.5 LBV)

PRQ: CSC 160 or instructor approval. 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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CSC 240

JAVA PROGRAMMING

3 CR. (2L/1.5 LBV)

PRQ: CSC 116 or instructor approval. 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 241

ADVANCED JAVA PROGRAMMING

3 CR. (2L/1.5 LBV)

PRQ: CSC 240 or instructor approval. Continues the study of the Java programming language. Covers advanced programming topics including multithreading, network/Internet programming, database programming and JavaBeans. Enables the student to write advanced, large and complex programs.

CSC 246

MOBILE APP DEVELOPMENT

3 CR. (2L/1.5 LBV)

PRQ: CSC 119. 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 DESIGN

3 CR. (3L)

PRQ: CIS 115 or permission of instructor. 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.

CSC 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Computer Web-Based

CWB 110

COMPLETE WEB AUTHORING: (SCRIPTING LANGUAGE)

3 CR. (2L/1.5 LBV)

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 130

WEB EDITING TOOLS: (EDITOR)

3 CR. (2L/1.5 LBV)

Teaches the use of tools for webpage design and development. These tools are designed to make the creation of webpages easy and consistent. With the use of editing tools, students will be able to build webpages 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 website once it is created.

CWB 164

STRUCTURED INFORMATION CREATION (LANGUAGE)

3 CR. (2L/1.5 LBV)

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 forms.

CWB 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CWB 185

INDEPENDENT STUDY

1-6 CR. (2-12 IND)

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

CWB 205

CLIENT-SIDE SCRIPTING: (SOFTWARE)

3 CR. (2L/1.5 LBV)

Explores the client-side programming skills necessary to create dynamic web content using a markup embeddable and procedural scripting language executing on the client web browser.

CWB 206

SERVER-SIDE SCRIPTING: (SOFTWARE)

3 CR. (2L/1.5 LBV)

Teaches the creation of dynamic webpages and applications using server-side scripting with database interactivity, server-based scripting languages, and database manipulation languages.

CWB 221

TECHNOLOGY FOUNDATIONS FOR E-COMMERCE

3 CR. (2L/1.5 LBV)

PRQ: BUS 204. Provides the student with thorough knowledge of e-commerce architecture, relational database management systems, and HTML and Network fundamentals.

CWB 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CWB 287

COOPERATIVE EDUCATION

1-6 CR. (3-18 INT)

Provides a college-to-work based experience that draws on combined efforts of educators and employers to produce outcomes related to student career objectives.

Construction Technology

CON 105

CONSTRUCTION TECHNOLOGY

4 CR. (3L/1.5 LBV)

Explores a variety of new software applications now available for the construction trade. Introduces computer applications such as CAD, scheduling, estimating and accounting programs. Explores technology choices and compares them.

CON 110

INTRODUCTION TO CONSTRUCTION, PART 1

4 CR. (3L/1.5 LBV)

Explores the expanding array of careers within the construction industry. Students will be exposed to the construction industry throughout job site tours, hands-on experience and classroom activities. Math and science application will be established throughout the academic integration of jobsite technical skills and classroom theory.

CON 111

INTRODUCTION TO CONSTRUCTION, PART 2

4 CR. (3L/1.5 LBV)

Explores additional careers within the construction industry. Students will be exposed to the construction industry throughout job site tours, hands-on experience and classroom activities. Math and science application will be established through the academic integration of jobsite technical skills and classroom theory.

**CON 112

BASIC REPAIRS FOR HOME OR APARTMENT

4 CR. (2L/3 LBV)

Focuses on repair and maintenance of buildings. Covers preventative maintenance methods and skills.

CON 120

BUILDING MATERIALS AND ENVIRONMENTAL IMPACT

3 CR. (2L/1.5 LBV)

Examines the qualities, uses and characteristics of wood, building materials, lumber, grading and defects of hard and soft woods, estimating, ordering, pricing, fasteners, adhesives, manufactured wood products, steels, vinyl and aluminum and their applications in construction process. Explores Built-Green products and their characteristics.

CON 140

INTRODUCTION TO BUILDING CODES & ENFORCEMENT

3 CR. (3L)

Introduces the basic concepts of code enforcement.

CON 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CON 244

CONCRETE AND ASPHALT TECHNOLOGY

3 CR. (1L/3LBV)

PRQ: EGG 100. Focuses on the study of Portland cement concrete and bituminous pavements. Covers manufacturing, mix design and placement of these materials.

CON 245

PROJECT MANAGEMENT

4 CR. (2L/3LBV)

PRQ: EGG 100. Covers the principles of project planning, scheduling, estimating and management. Emphasizes the basic skills required to supervise personnel. Includes case studies.

CON 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CON 280

INTERNSHIP

3 CR. (9 INT)

PRQ: Instructor approval. 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. S/U

Cosmetology

COS 103

SHAMPOO/RINSES/CONDITIONERS I

1 CR. (1 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces various types of scalp treatments and shampoos. Enables student to recognize and treat disorders of hair and scalp. Covers product knowledge and proper massage techniques to help control disorders and to cleanse the hair and scalp. Includes terminology dealing with hair structure, scalp and hair disorders. Provides training in a lab or classroom setting.

COS 110

INTRODUCTION TO HAIR COLORING

2 CR. (4 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Provides theory pertaining to the law of color, theory of color, chemistry of color, product knowledge and analysis of hair and scalp. Covers basic techniques and procedures for the application of hair coloring.

COS 111

INTERMEDIATE: HAIR COLORING

2 CR. (4 CLI)

PRQ: COS 110. Focuses on theory and practical application of color products, formulations of color, level and shades of color. Examines techniques in a specialized class or in a supervised salon setting.

COS 120

INTRODUCTION TO HAIR CUTTING

2 CR. (4 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduction to the theory relevant to patron protection, angles, elevations and the analysis of hair textures as related to hair cutting. Covers the proper use and care of hair-cutting implements. Focuses on basic hair-cutting techniques using all cutting implements, disinfection and sanitation procedures as they relate to haircutting.

COS 121

INTERMEDIATE I: HAIRCUTTING

2 CR. (4 CLI)

PRQ: COS 120. Focuses on theory related to facial shapes, head and body forms to determine the clients appropriate haircut. Incorporates practical applications of hair cutting techniques in specialized classes or in the supervised salon (clinical setting).

COS 130

INTRODUCTION TO HAIR STYLING

2 CR. (1L/1.5 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Combines theory with the practical application of roller placement, shaping, pin curls, finger waves, air forming iron curling, soft pressing and hard pressing.

COS 131

INTERMEDIATE I: HAIR STYLING

2 CR. (4 CLI)

PRQ: COS 130. Focuses on the accepted methods of styling hair, air forming roller sets, finger waves pin curls braiding and hair pressing.

COS 140

INTRODUCTION TO CHEMICAL TEXTURE

1 CR. (2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces a combination of theory and practice focusing on the analysis of hair and scalp, proper equipment and product knowledge. Includes basic techniques in permanent waving and chemical relaxing. Provides training in a classroom or lab setting on mannequins or live models.

COS 141

INTERMEDIATE I: CHEMICAL TEXTURE

1 CR. (2 CLI)

PRQ: COS 140. Emphasizes theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables the student to practice different wrapping techniques required by trend styles.

COS 150

LAWS, RULES AND REGULATIONS

1 CR. (1L)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Provides instruction on the laws, rules and regulations and how they govern the cosmetology and barber industry, as well as the effects they have on the student, licensed individual, salons and school owners.

COS 160

INTRODUCTION TO DISINFECTION, SANITATION & SAFETY

2 CR. (4 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces the various methods of disinfection, sanitation and safety as used in the cosmetology industry. Includes classroom study of bacteriology and the terminology dealing with cosmetology.

COS 161

INTERMEDIATE I: DISINFECTION, SANITATION & SAFETY

1 CR. (2 CLI)

Focuses on the theory and daily practice of proper methods of disinfection, sanitation and safety procedures as related to all phases of cosmetology. Covers terminology and training of disinfection, sanitation and safety procedures. Also includes customer service in a supervised salon (clinical) setting or specialized class.

COS 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

COS 203

SHAMPOO/RINSES/CONDITIONERS II

1 CR. (2 CLI)

PRQ: COS 103. Provides theory and practical training in shampoos, rinses and conditioners. Examines advanced techniques to prepare the student for employment. Includes preparation for the State Board Licensing Examination in shampoos, rinses and conditioners.

COS 210

INTERMEDIATE II: HAIR COLORING

2 CR. (4 CLI)

PRQ: COS 110. Provides continued instruction in the theory and practical application of color products, formulations of color, level and shades of color. Enables students to practice techniques in a specialized class or in a supervised salon setting.

COS 211

ADVANCED HAIR COLORING

2 CR. (4 CLI)

PRQ: COS 111. Provides continued instruction on advanced theory and practical techniques in hair coloring. Focuses on the recognition of color problems and color correction procedures. Covers advanced techniques and product knowledge to prepare the student for employment. Prepares the student for the State Board Licensing Examination pertaining to hair coloring.

COS 220

INTERMEDIATE II: HAIRCUTTING

2 CR. (4 CLI)

PRQ: COS 120. Provides continued instruction in the theory related to facial shapes, head and body forms to determine the client's appropriate haircut. Incorporates practical applications of haircutting techniques.

COS 221

ADVANCED HAIR CUTTING

2 CR. (4 CLI)

PRQ: COS 121. Focuses on advanced cutting techniques using all the cutting tools. Emphasizes current fashion trends. Includes student preparation for the State Licensure examination.

COS 230

INTERMEDIATE II: HAIR STYLING

2 CR. 1.5 LBV/2 CLI)

PRQ: COS 130. Provides continued instruction on accepted methods of styling hair, air forming, roll set, finger waves and hair pressing. Examines techniques in specialized classes or in a supervised salon setting.

COS 231

ADVANCED HAIR STYLING

1 CR. (2 CLI)

PRQ: COS 131. Focuses on theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon (clinical) work and specialized classes. Includes student preparation for the State Board Licensing Examination relating to hairstyling.

COS 240

INTERMEDIATE II: CHEMICAL TEXTURE

1 CR. (2 CLI)

PRQ: COS 140. Provides continued instruction in the theory and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Enables students to practice different wrapping techniques required by trend styles.

COS 241

ADVANCED CHEMICAL TEXTURE

1 CR. (2 CLI)

PRQ: COS 141. Focuses on advanced techniques to prepare the student for employment and the changes in current industry standards. Instruction is provided in specialized classes or supervised salon (clinical) setting. Includes student preparation for the State Board Licensing Examination pertaining to permanent waves and chemical relaxers.

COS 250

MANAGEMENT, ETHICS, INTERPERSONAL SKILLS & SALESMANSHIP

1 CR. (1L)

Emphasizes the importance of salon management and the knowledge and skills necessary to build a successful business. Focuses on the importance of interpersonal skills and basic techniques in salesmanship and customer services. Integrates job readiness skills and professional ethics.

COS 260

INTERMEDIATE II: DISINFECTION, SANITATION & SAFETY

2 CR. (4 CLI)

Provides continued study of theory and practice of proper methods of sterilization, disinfection, sanitation and safety procedures as related to all phases of the industry. Covers terminology and training of disinfection, sanitation and safety procedures. The individual responsibility to provide a safe work environment is practiced.

COS 261

ADVANCED DISINFECTION, SANITATION & SAFETY

1 CR. (2 CLI)

PRQ: COS 161. Provides advanced training on decontamination and safety practices in a supervised salon and/or classroom setting. Examines advanced techniques that prepare the student for employment. Includes student preparation for the State Board Licensing Examination in decontamination and safety for all aspects of the industry. Study of OSHA requirements for schools and salon are done in a theory or practical setting.

COS 262

ADVANCED II: DISINFECTION, SANITATION & SAFETY

3 CR. (6 CLI)

PRQ: COS 260. This course is the extra hours/credits required for the hairstylist program, per State Board of Colorado Barber/Cosmetology Board. Provides advanced training on decontamination and safety practices in a supervised salon and/or classroom setting. Examines advanced techniques that prepare the student for employment. Includes student preparation for the State Board Licensing Examination in decontamination and safety for all aspects of the industry. Study of OSHA requirements for schools and salon are done in a theory or practical setting.

COS 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

EST 101

INTRODUCTION TO STERILIZATION, SANITATION & SAFETY

2 CR. (4 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces the various methods of sterilization, sanitation and safety as used today in the industry. Classroom study of bacteriology and the terminology dealing with sterilization and sanitation.

EST 110

INTRODUCTION TO FACIALS AND SKIN CARE

3 CR. (6 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Provides a basic understanding of massage manipulations when providing facials, the study of skin in both theory and practical applications, and benefits derived from proper facial and good skin care routines. Training is conducted in a classroom or lab setting using mannequins or models.

EST 111

INTERMEDIATE FACIALS & SKIN CARE

2 CR. (4 CLI)

PRQ: EST 110. Covers theory and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students help patrons to select the proper skin care treatment. Practical and theory application can be done in specialized classes or supervised salon (clinical) setting using models or customer service.

EST 160

INTRODUCTION TO DISINFECTION, SANITATION & SAFETY

2 CR. (4 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces the various methods of disinfection, sanitation and safety as used today in the industry. Classroom study of bacteriology and the terminology dealing with disinfection, sanitation and safety.

EST 161

INTERMEDIATE DISINFECTION, SANITATION & SAFETY

3 CR. (6 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Presents theory and the daily utilization and practice of the proper methods of disinfection, sanitation, and safety. Procedures as related to all phases of the industry. Training is provided in a supervised (clinical) setting.

EST 210

ADVANCED MASSAGE & SKIN CARE

2 CR. (4 CLI)

PRQ: EST 111. Provides the student with advanced techniques in massage, skin care and lash/brow tinting. Theory and practical procedures ready the student for employment. Instruction is provided in specialized classes or in a supervised salon (clinical) setting. Student preparation for State Board Licensing Examination.

EST 211

FACIAL MAKE-UP

1 CR. (2 CLI)

PRQ: EST 110. Provides instruction on cosmetics and their functions. The importance of color theory, facial types and skin tones as they relate to facial makeup. Instruction from the basic makeup application to the corrective makeup procedure is taught. Disinfection and sanitation is taught as it pertains to all aspects of makeup.

EST 212

HAIR REMOVAL

3 CR. (6 CLI)

PRQ: EST 110. Provides in-depth study and practice of hair removal and the practice of patron protection and safety. Training for general waxing and body waxing procedures are provided. Demonstration of disinfection and sanitation as it pertains to Colorado rules and regulations will be practiced.

EST 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

NAT 101

INTRODUCTION TO STERILIZATION, SANITATION AND SAFETY

2 CR. (1L/1.5 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Introduces the various methods of sterilization, sanitation and safety as used in the manicuring profession. Classroom study of bacteriology and the terminology dealing with manicuring is also covered.

NAT 108

INTRODUCTION OF MANICURING/PEDICURES/ARTIFICIAL NAILS

3 CR. (1L/1.5 LBV/2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Provides a basic introduction into the proper use of implements used in manicures, pedicures and artificial nails. Theory and practical application of proper set-up, safety, sanitation, nail shapes, anatomy, product knowledge and terminology dealing with manicures, pedicures and artificial nails is covered. Training is done in a classroom or lab setting using models or other techniques.

NAT 110

INTRODUCTION TO MANICURES & PEDICURES

3 CR. (6 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Provides a basic introduction in the proper use of implements used in manicures and pedicures. Theory and practical application of proper set-up, safety, sanitation, nail shapes, anatomy, product knowledge and terminology dealing with manicures and pedicures is covered. Training is done in a classroom or lab setting using models or other techniques.

NAT 111

INTERMEDIATE MANICURES & PEDICURES

2 CR. (4 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Presents theory and practical application dealing with different types of manicures, pedicures, nail art and massage techniques. Theory and practical application of procedures, products, nail shapes and maintenance of natural nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service. Proper sanitation and sterilization as it pertains to all aspect of manicures, pedicures and nail art is taught.

NAT 151

INTERMEDIATE STERILIZATION, SANITATION AND SAFETY

1 CR. (1.5 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Presents theory, utilization and proper methods of sterilization, sanitation and safety procedures as related to all areas of manicuring.

NAT 158

INTERMEDIATE MANICURING/PEDICURES/ARTIFICIAL NAILS

2 CR. (1L/2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Presents theory and practical application dealing with different types of manicures, pedicures and massage techniques. Theory and practical application of procedures, products, nail shapes and maintenance of artificial nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service.

NAT 159

INTERMEDIATE MANICURING/PEDICURES/ARTIFICIAL NAILS II

2 CR. (1.5 LBV/2 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Presents theory and practical application dealing with different types of manicures, pedicures and massage techniques. Theory and practical application of procedures, products, nail shapes and maintenance of artificial nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service.

NAT 201

ADVANCED STERILIZATION, SANITATION AND SAFETY

1 CR. (1.5 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Provides advanced training on sterilization, sanitation and safety is incorporated in a supervised (clinical) setting. Advanced techniques will ready the student for employment. Students will prepare for the State Board Licensing, Examination on theory and practical procedures for sterilization, sanitation and safety.

NAT 208

ADVANCED MANICURING/PEDICURES/ARTIFICIAL NAILS

4 CR. (1L/1.5 LBV/4 CLI)

PRQ: RC 62-79, SS 50-69, EA 30+. Provides advanced theory and practical application of manicures, pedicures and nail art techniques. Theory and advanced practical techniques of silk wraps, tip overlays, acrylics and product knowledge to ready the student for employment is presented. Instruction is provided in specialized classes or in supervised salon (clinical) setting using models or customer service. Student preparation for state board licensing examination pertaining to manicures and pedicures is covered.

NAT 210

ADVANCED MANICURES & PEDICURES

2 CR. (4 CLI)

PRQ: NAT 211. Presents theory and practical application dealing with different types of manicures, pedicures massage techniques and nail art. Theory and practical application of procedures, products, nail shapes and maintenance of the natural nails is covered. Students learn to recognize different nail disorders and their proper treatment. Training is done in a specialized class or in supervised salon (clinical) setting, using models or customer service.

NAT 211

APPLICATION OF ARTIFICIAL NAILS

5 CR. (10 CLI)

PRQ: NAT 111. Provides advanced theory and practical application of nail wraps, tip overlays, acrylics and product knowledge to ready the student for employment. Theory and practical application of removal techniques for artificial nails is covered. Instruction is provided in specialized classes or in supervised salon (clinical) setting using models or customer service. Student preparation for state board licensing examination pertaining to artificial nails is covered.

NAT 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Counseling

CSL 245

PROFESSIONAL ETHICS I

1 CR. (1L)

PRQ: High School diploma or equivalent. This course focuses on ethical issues specific to the practice of addiction counseling and on jurisprudence, which is the law and the practice of psychotherapy in Colorado. The class will cover the Colorado Mental Health Practice Act and introduce the student to the regulatory system and the role of DORA (Dept. of Regulatory Agencies) and DBH (Division of Behavioral Health) in the development and credentialing of the addiction counselor. There will be emphasis on developing ethical decision making skills, knowledge of confidentiality and the prohibited activities in the Mental Health Practice Act. Students will become familiar with the NAADAC Code of Ethics and acquire the tools for ethical and legal practice.

CSL 251

PHARMACOLOGY I FOR ADDICTION COUNSELORS

1 CR. (1L)

PRQ: High School diploma or equivalent. This class will provide a solid base of knowledge about the drugs of abuse, including what is happening in human physiology and behaviors, and will enhance the ability of the counselor to offer treatment services in a manner that respects gender, race and ethnicity, sexual orientation, cultural, familial, systemic and socioeconomic diversity.

CSL 255

INFECTIOUS DISEASES FOR ADDICTION COUNSELORS

1 CR. (1L)

PRQ: High School diploma or equivalent. This class will help prepare addiction professionals to identify diseases frequently associated with drug abuse, determine client risk for infection, educate clients about disease prevention and treatment options, and assist clients in obtaining appropriate treatment as needed. This class will enhance the ability of the counselor to offer treatment services in a manner that respects gender, race and ethnicity, sexual orientation, cultural, familial, systemic and socioeconomic diversity.

CSL 260

CLIENT RECORDS MANAGEMENT

1 CR. (1L)

PRQ: High School diploma or equivalent. This class will provide the counselor with an understanding of the clinical record and the continuum of client care that the record documents and tracks. The class presents screening, assessment and evaluation, diagnosis, ASAM patient placement criteria, treatment planning, progress note completion, documentation requirements and discharge planning. It emphasizes the confidentiality of the client record and includes releases of information, mandatory disclosure and informed consent among others.

CSL 265

CULTURALLY INFORMED TREATMENT

1 CR. (1L)

PRQ: High School diploma or equivalent. This class will provide a basic foundation for understanding how cultural competence, awareness and sensitivity can improve quality of care and increase positive outcomes. Cultural variables to be considered will include age, gender, sexual orientation, religious affiliation, language, educational level, physical ability, economic status and social class as well as racial and ethnic backgrounds. This course is intended to provide participants with basic skills to recognize and respect the behavior, ideas, attitudes, values, beliefs, customs, language, rituals, ceremonies and practices characteristic of diverse groups of people. Course design will include definitions and descriptions of culture including concepts of assimilation and acculturation. Exercises will involve self-examination and discussion of the evolution of one's own personal beliefs, values and attitudes.

CSL 268

ADDICTIONS COUNSELING SKILLS

1.5 CR. (1.5L)

PRQ: High School diploma or equivalent. This class will provide a framework and counseling model for working with clients with substance abuse or dependence. This course will teach the counseling skills needed to help clients process their information and move toward the change process. The models utilized in this class are client-centered, counselor-directed therapy using a motivational style and spirit.

CSL 269

PRINCIPLES OF ADDICTION

1.5 CR. (1.5L)

PRQ: High School diploma or equivalent. Focuses on the major theories of addiction in an historical and theoretical context. Includes an elaboration on NIDA's Principles of Drug Addiction Treatment. This class meets the principles of addictions training requirement for the Counselor I level of the Colorado Alcohol and Drug Abuse Program.

Criminal Justice

CRJ 110

INTRO TO CRIMINAL JUSTICE: GT-SS3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: ENG 121. 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 is paid to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3.

CRJ 125

POLICING SYSTEMS

3 CR. (3L)

CORQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CRJ 110. 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 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (3L)

PRQ: Successful completion of CRJ 110. Provides an overview of the structure and function of the dual American judicial system and the behavior of actors (judges/justices, lawyers, law clerks, interest groups, etc.) within the system. Emphasis is placed on the organization and administration of state and federal courts, criminal court procedures, juries, selection of judges, decision-making behavior of juries, judges and justices, and the implementation and impact of judicial policies.

CRJ 145

CORRECTIONAL PROCESS

3 CR. (3L)

PRQ: Successful completion of CRJ 110. 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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CRJ 178

SEMINAR

1-6 CR. (1-6 SEM)

PRQ: Department chair or program coordinator approval. Provides students with an experiential learning opportunity.

CRJ 205

PRINCIPLES OF CRIMINAL LAW

3 CR. (3L)

PRQ: Successful completion of CRJ 110, CRJ 125, CRJ 135, CRJ 145, and ENG 121. PRQ/CORQ: COM 115 and ENG 122. 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 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (3L)

PRQ: Successful completion of CRJ 110 and CRJ 135. PRQ/CORQ: COM 115 and ENG 121. Focuses on the powers of government as they are allocated and defined by the United States Constitution. Includes intensive analysis of United States Supreme Court decisions.

CRJ 216

JUVENILE LAW AND PROCEDURES

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Conduct an in-depth analysis of the socio-legal operation of the juvenile justice system emphasizing the substantive and due process rights of minors. Analysis of legal reasoning underlying the juvenile law as it operates all levels of government.

CRJ 230

CRIMINOLOGY

3 CR. (3L)

PRQ: Successful completion of CRJ 110 and CRJ 145.
PRQ/CORQ: COM 115 and ENG 121. Provides an introduction to the study of crime, understanding the causes of crime, and examines theoretical frameworks and theories to explain criminal behavior. Within a social context, consideration is given to how theories have emerged and understand how social context contributes to explanations of crime. Examination of the nature of crime, crime victimization, crime patterns, types of crime, crime statistics and criminal behavior is also included.

CRJ 231

INTRODUCTION TO FORENSIC SCIENCE AND CRIMINALISTICS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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

CRJ RESEARCH METHODS

3 CR. (3L)

PRQ: Successful completion of CRJ 110, CRJ 125, CRJ 135, CRJ 145, and ENG 121. PRQ/CORQ: COM 115 and ENG 122. Provides an introduction to research methods in criminal justice. Addresses foundations of research, analysis of findings, and ethical issues in researching criminal justice issues. This course will use an interactive approach in basic research concepts and practices. Students will obtain a thorough understanding of how research is conducted and how practitioners can benefit from this knowledge. Additionally, students will develop research proposals, conduct appropriate reviews of previously published research, and write a final research study.

CRJ 257

VICTIMOLOGY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Demonstrates to 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 268

CRIMINAL PROFILING

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Examines theories of crime causation with respect to crimes committed by the most violent offenders in society. an analysis of the research done, and the history of criminal personality profiling, beginning with the earliest explanations through the beliefs of modern science, as well as psychological and sociological explanations . Identifies various known offenders, examines their backgrounds, and explains how current research into homicide, sexual offenses and serial killers can provide clues to the identity of unknown offenders.

CRJ 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CRJ 280

COOPERATIVE EDUCATION/INTERNSHIP

3 CR. (9 INT)

PRQ: Department chair or program coordinator approval. Provides work experience for students to gain practical work experience related to their educational program. *Individuals desiring this Peace Officers Standard and Training (P.O.S.T.) course of study must file an application with the Police Academy coordinator before registering. Colorado State law requires that Police Academy students meet specific guidelines prior to admission.

*Students pursuing a Police Science area of emphasis are expected to complete the Pueblo Law Enforcement Academy. This must be coordinated with the Director of the Academy and the assigned CRJ student advisor.

Culinary Arts

CUA 101

FOOD SAFETY AND SANITATION

2 CR. (2L)

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 from the Education Foundation.

CUA 103

SANITATION & PRODUCTION SERVSAFE

3 CR. (1.5 LBV)

This course parallels CUA 101 and CUA 121. It accommodates the need for students to have to register for a 3 credit hour course in order to qualify for third-party sponsorship. Students will learn the basics of sanitation and safe food handling, resulting in ServSafe Certification from the National Restaurant Association if they pass a national exam with a score of 75% or higher. They will also be introduced to the principles of food production as practiced in commercial kitchens. Skills included are use of weights and measures, recipe conversion, basic knife cuts and fundamental principles of classical cuisine.

CUA 121

INTRODUCTION TO FOOD PRODUCTION PRINCIPLES AND PRACTICES

1 CR. (1.5 LBV)

CORQ: CUA 101 or department chair approval. Provides students with the fundamental principles of commercial kitchen operations 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. The class meets a minimum of 22.5 hours.

CUA 122

INTRODUCTION TO STOCKS, SOUPS, AND SAUCES

1 CR. (1.5 LBV)

PRQ/CORQ: CUA 101, CUA 121 or department chair approval. Focuses on the fundamental principles of stocks, soups, sauces, gravies and thickening agents. Enables students to produce a variety of these products in the commercial kitchen incorporating practice in the use of tools, utensils, equipment and application of safety and sanitation practices. Students apply pre-preparation skills and efficient organization of work techniques. Meets a minimum of 22.5 hours.

CUA 123

INTRODUCTION TO GARDE MANGER

1 CR. (1.5 LBV)

CORQ: CUA 101, CUA 121, or department chair approval. Provides fundamental principles of cold food and nonalcoholic beverage preparation and production. Enables students to produce a variety of cold food and non-alcoholic beverage products incorporating practice in the use of tools, utensils, equipment and application of safety and sanitation methods. Introduces basic cold food decorative work such as fruit and vegetable garnishes and carvings, terrines and hors d'oeuvres. Focuses on pre-preparation procedures and efficient organization of work techniques. Meets for a minimum of 22.5 hours.

CUA 124

VEGETABLE PREPARATION AND BREAKFAST COOKERY

1 CR. (1.5 LBV)

CORQ: CUA 101, CUA 123, or department chair approval. Introduces students to vegetable preparation and breakfast cookery in a commercial kitchen. Focuses on the significance of variety of breakfast items and the preparation of vegetable items using a variety of cooking methods. Emphasizes the affects of seasonings and cooking methods on vegetable products. Students prepare, plate and garnish breakfast orders similar to those ordered in restaurants with egg cookery and dairy products emphasized. Meets a minimum of 22.5 hours.

CUA 125

INTRODUCTION TO FOODS

4 CR. (6 LBV)

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 nonalcoholic 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 129

CENTER OF THE PLATE

4 CR. (6 LBV)

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 131

STARCHES, PASTAS, CASSEROLES AND GRAIN PRODUCTS

1 CR. (1.5 LBV)

PRQ: CUA 101, CUA 121, CUA 124, MAT 050 or equivalent assessment test score, or department chair approval. Provides the basics of preparing and/or cooking potatoes, starches, legumes and pastas. Enables students to prepare and cook a variety of casseroles and grain products using a commercial kitchen for their preparation area. Allows students to apply pre-preparation skills and efficient organization of work techniques. Class meets a minimum of 22.5 hours.

CUA 132

CENTER OF THE PLATE: MEAT

1 CR. (1.5 LBV)

PRQ: CUA 101, CUA 121, CUA 124, MAT 050 or equivalent assessment test score, or department chair approval. Provides the student with the basics of meat handling, including principles used for selecting meat products, their basic cuts and cooking methods. Focuses on a variety of meat products in the college kitchen. Meets for a minimum of 22.5 hours.

CUA 133

CENTER OF THE PLATE: POULTRY, FISH, & SEAFOOD

1 CR. (1.5 LBV)

PRQ: CUA 101, CUA 121, CUA 124, MAT 050 or equivalent assessment test score, or department chair approval. Provides the basics of handling poultry, fish and seafood including principles used for selection and the basic forms these products have and the methods of cooking them. Focuses on preparation of poultry, fish and seafood products in a commercial kitchen and incorporates practice in the use of these principles and methods. Covers pre-preparation skills and efficient organization of work techniques. Meets for a minimum of 22.5 hours.

CUA 134

APPLICATION OF FOOD PRODUCTION PRINCIPLES

1 CR. (1.5 LBV)

PRQ: CUA 122, CUA 123, CUA 124, CUA 131, CUA 132, CUA 133, or department chair approval. Serves as the practice vehicle for the student to apply food production principles for foods covered in CUA 121, CUA 122, CUA 123, CUA 124, CUA 131, CUA 132 and CUA 133. Enables the student to plan and prepare a variety of complete meals intended for a variety of settings. Meets a minimum of 22.5 hours.

CUA 136

ALCOHOL AND BARTENDING MANAGEMENT

2 CR. (3 LBV)

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 141

BAKING: PRINCIPLES AND INGREDIENTS

1 CR. (1.5 LBV)

PRQ/CORQ: CUA 101 or department chair approval.

Provides the student with the fundamentals of baking terminology, principles of baking and the characteristics and functions of the main ingredients used in bakery production. Meets for a minimum of 22.5 hours.

CUA 142

BASIC YEAST-RAISED PRODUCTS AND QUICK BREADS

1 CR. (1.5 LBV)

PRQ/CORQ: CUA 141 or department chair approval.

Provides the student with the fundamentals of basic yeast-raised production and quick breads. Enables the student to produce white bread, rolls, variety grain breads, specialty breads, sweet yeast-raised products, and quick breads in a commercial kitchen. Meets for a minimum of 22.5 hours.

CUA 143

BAKING: CAKES, PIES, PASTRIES, AND COOKIES

1 CR. (1.5 LBV)

PRQ/CORQ: CUA 141 or department chair approval.

Provides the student with the 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. Meets for a minimum of 22.5 hours.

CUA 144

BAKING APPLICATIONS

1 CR. (1.5 LBV)

PRQ/CORQ: CUA 141, CUA 142, CUA 143 or department chair approval. Serves as the practical vehicle for the student to apply basic baking principles and practices to the production of yeast breads, quick breads, cakes, icings, pastries, pies and cookies. Focuses on the preparation of a variety of baked goods in a commercial kitchen according to a baking production schedule. Enables the student to demonstrate comprehensive knowledge of products as well as speed and efficiency in the production of quality baked goods. Meets a minimum of 22.5 hours.

CUA 145

INTRODUCTION TO BAKING

4 CR. (6 LBV)

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 and 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 154

INTRODUCTION TO THE BUSINESS OF CATERING

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or CCR 092.

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 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or CCR 092, equivalent assessment test score, or department chair approval. 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 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of CCR 092 with a “C” or better. 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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CUA 181

WORK EXPLORATION

2 CR. (2L)

PRQ: 10 hours of completed course work in CUA and/or HOS classes; successful completion of any CCR course or qualifying placement score or exemption, or CCR 092. Introduces students to the range of employment opportunities in the hospitality and culinary arts industry. By participating in regularly scheduled class sessions which feature guest lecturers from a variety of business operations, students will learn about the careers available to them. Students will be responsible for creating searching questions for quest speakers and will maintain a journal that documents each class’s industry representative’s main points. Included in the course will be the requirement that students read and report on a book representative of a management theory or industry leader’s experience.

CUA 190

DINING ROOM MANAGEMENT

4 CR. (6 LBV)

PRQ/CORQ: CUA 101 or department chair approval. 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 191

FRONT OF THE HOUSE PLANNING

1 CR. (1.5 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of CCR 092. Teaches how to organize special meal functions, handle reservations and special requests, evaluate dining room personnel, create menu format for the GPA Dining Room and operate the POS manager’s menu. Students will meet 22.5 hours during the semester in a scheduled class setting. Assignments and projects will be completed outside of class meetings.

CUA 210

ADVANCED CUISINE AND GARDE MANGER

4 CR. (6 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or CCR 092 or equivalent assessment test score, or department chair approval. 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 AND COOKERY

4 CR. (6 LBV)

PRQ: CUA 134 or department chair approval. 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 234

ADVANCED LINE PLANNING

2 CR. (3 LBV)

PRQ: CUA 233 or department chair approval. Teaches students to plan a variety of menus to be prepared in CUA 233, Advanced Line Prep and Cookery. They will also perform the duties of a supervisor in charge of line cookery. They will be responsible for thorough knowledge of menu items including all methods of cookery. Students will order, pre-prepare, store and organize food and supply items for students in the Advanced Line Prep class. They will also organize work (learning) stations for students in the Advanced Line Prep Class. They will learn how to substitute menu items if there are difficulties in equipment or shortages of food items or personnel. Examples of other areas of learning include inventory, ordering, storage and issuing. By the conclusion of this class, students will be able to supervise an entire line prep station.

CUA 236

ADVANCED BAKING

2 CR. (3 LBV)

PRQ: CUA 144. 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 238

PRODUCTION APPLICATIONS OF AMERICAN REGIONAL CUISINES

4 CR. (6 LBV)

PRQ: CUA 233. Provides students with advanced a la carte cooking skills involving foods representative of major American regions. Using in depth research, students will develop regional menus; prepare presentations about their regions; create cooking demonstrations; and lead the class in the preparation of complete menus. Menus will be prepared and served to customers in a dining setting. Students will work as members of highly functioning teams as they prepare menus which reflect unique characteristics of American regions.

CUA 239

PRODUCTION APPLICATIONS OF INTERNATIONAL CUISINES

4 CR. (6 LBV)

PRQ: CUA 233. Provides students with advanced a la carte cooking skills involving foods representative of cuisines in International areas. Using in depth research, students will develop menus representative of an assigned International area; prepare presentations about their area; create cooking demonstrations; and lead the class in the preparation of complete menus. Menus will be prepared and served to customers in a dining setting. Students will work as members of highly functioning teams as they prepare menus which reflect unique characteristics of International locations.

CUA 255

SUPERVISION IN THE HOSPITALITY INDUSTRY

3 CR. (3L)

PRQ: CUA 101, Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 CR. (3L)

PRQ: CIS 110, Successful completion of any CCR course or qualifying placement score or exemption. CORQ: MAT 107. 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% or higher, they will receive a national certificate for the course.

CUA 262

PURCHASING FOR THE HOSPITALITY INDUSTRY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or CCR 092, or department chair approval. 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 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or CCR 092, or department chair approval. 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 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

CUA 281

INTERNSHIP

2-6 CR. (6-18 INT)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, CIS 110, or MAT 107, CUA 157, CUA 190, CUA 233, CUA 261 or, HOS 123, HOS 207, and CIS 118; or department chair approval. 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

DAN 105

HIP HOP DANCE I

1 CR. (2 LBA)

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 CR. (2 LBA)

PRQ: Successful completion of DAN 105, or department chair approval. 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 CR. (2 LBA)

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. May be repeated for no more than three credits.

DAN 115

COUNTRY SWING I

1 CR. (2 LBA)

Includes many styles and various combinations of steps for Western dance music. Will also teach the students how to convert combinations of others dances of traditional and fad as they become popular.

DAN 117

SALSA I

1 CR. (2 LBA)

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 118

SALSA II

1 CR. (2 LBA)

PRQ: Successful completion of DAN 117, or department chair approval. Continues Salsa I with an increased knowledge of Salsa dance. This course focuses on Salsa dancing in groups of couples with frequent partner exchanges. Dancers learn a more in-depth study of Salsa dance concepts and techniques. A partner is not required for this course.

DAN 121

JAZZ I

1 CR. (2 LBA)

Introduces the basic techniques and vocabulary of jazz dance and the basic elements of dance. Focuses on movement-oriented dance, comprising warm-up exercises, center combinations, traveling combinations and cool down.

DAN 129

INTRODUCTION TO DANCE

1 CR. (2 STA)

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 131

BALLET I

1 CR. (2 STA)

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, comprising stretching, barre warm-up exercises, simple Terre à Terre and jumping steps, and basic extended positions. May be repeated for a maximum of three credits.

DAN 132

BALLET II

2 CR. (4 LBA)

PRQ: Successful completion of DAN 131, or department chair approval. 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 141

BALLROOM DANCE

1 CR. (2 LBA)

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 they study. Partners are not required. May be repeated for a maximum of three credits.

DAN 142

BALLROOM DANCE II

1 CR. (2 LBA)

PRQ: Successful completion of DAN 141, or department chair approval. Continues Dance 141 with focus on regional dances, customs and rhythms. Partners are not required. May be repeated for a maximum of three credits.

DAN 154

DANCE AND STAGE MOVEMENT

3 CR. (3L)

Introduces students to the basic elements of modern dance and to the potential of dance and stage movement as a means of communication.

DAN 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

DAN 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Dental Assisting

DEA 102

PRINCIPLES OF CLINICAL PRACTICE

3 CR. (1L/3 LBV)

PRQ: Admission to the DEA program. 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 CR. (1L/2 CLI)

PRQ: Admission to the DEA program. 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 CR. (1L/2 CLI)

PRQ: Admission to the DEA program. 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 CR. (1L)

PRQ: Admission to the DEA program. Includes roles and responsibilities of the dental health team; educational background for the various specialties, including general practitioner, hygienist and dental assistant; history, legal implications, ethical responsibilities and the role of professional organizations.

DEA 121

DENTAL SCIENCE I

3 CR. (3L)

PRQ: Admission to the DEA program. Includes fundamentals of the oral structures as they apply oral histology, embryology, morphology, pathology, dental anatomy and dental charting.

DEA 122

DENTAL SCIENCE II

3 CR. (3L)

PRQ: Admission to the DEA program. 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 CR. (1L/3 LBV)

PRQ: Admission to the DEA program. Includes fundamentals of dental materials as they apply to clinical and laboratory applications.

DEA 124

DENTAL MATERIALS II

3 CR. (1L/3 LBV)

PRQ: Admission to the DEA program. Includes type, compositions and uses of elastomeric impression materials and the fabrication of custom impression trays and temporary crowns.

DEA 125

DENTAL RADIOGRAPHY

3 CR. (2L/2 CLI)

PRQ: Admission to the DEA program. Focuses on the science of radiography, the application of radiographic techniques, and aseptic techniques.

DEA 126

INFECTION CONTROL

3 CR. (2L/2 CLI)

PRQ: Admission to the DEA program. 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 127

DENTAL SCIENCE III

3 CR. (2L/1.5 LBV)

PRQ: Admission to the DEA program. Includes in depth study of oral pathology and the effects on the human body with recognition and identification of pathological conditions. Emphasizes pharmacology, anesthesia and pain control within the foundation of clinical dentistry. Focuses on the procedures involved with local anesthesia and sedation, with emphasis on the knowledge and application of nitrous oxide administration in the dental office. Students will be eligible to sit for a certificate in Nitrous Oxide/Oxygen Administration after successful completion of the course.

DEA 128

PRACTICE OF CLINICAL CHAIRSIDE ASSISTING

2 CR. (3 LBV)

PRQ: Admission to the DEA program. Covers the concept of clinical chairside assisting. Emphasis will be placed on chairside assisting in dental restorative procedures, coronal polishing skills, fluoride application, and hands-on manipulation of dental materials in a preclinical and/or laboratory situation. Student learning will center on enhancing student's procedure anticipation, dexterity, skills of chairside assisting, and dental laboratory procedures prior to clinical internship experiences.

DEA 131

ADVANCED DENTAL RADIOGRAPHY

3 CR. (1L/3 LBV)

PRQ: Admission to the DEA program. 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 18 years of age.

DEA 132

MEDICAL EMERGENCIES IN THE DENTAL OFFICE

2 CR. (1L/1.5 LBV)

PRQ: Admission to the DEA program. 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 AND NUTRITION IN DENTISTRY

3 CR. (1L/3 LBV)

PRQ: Admission to the DEA program. 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 CR. (1L)

PRQ: Admission to the DEA program or two years' experience and consent of program coordinator. Focuses on a review for the Dental Assisting National Board (DANB) Examination.

DEA 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

DEA 181

CLINICAL INTERNSHIP I

1 CR. (3 INT)

PRQ: Admission to the DEA program. 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 AND SEMINAR

6 CR. (18 INT)

PRQ: Admission to the DEA program. 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 CR. (6 LBV)

PRQ: Graduate of an ADA accredited program, certified dental assistant, or 2 years of full-time documented chairside 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 CR. (2L/4 CLI)

PRQ: DEA 200. Focuses on clinical application of expanded functions in dental assisting.

DEA 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Dental Hygiene

DEH 101

PRECLINICAL DENTAL HYGIENE LECTURE

2 CR. (3 LBV)

PRQ: Current enrollment in the Dental Hygiene program. Explores basic dental hygiene theory and development of basic skills. Focuses on the application of diagnostic, preventative and therapeutic procedures and includes an introduction to dentistry and dental hygiene, dental and medical terminology, infection control, the removal of tooth deposits, patient medical and dental histories, preventive instruction and treatment planning.

DEH 102

PRECLINICAL DENTAL HYGIENE CARE

3 CR. (6 CLI)

PRQ: Current enrollment in the Dental Hygiene program. Focuses on clinical experiences in basic dental hygiene procedures and techniques including basic instrumentation, infection control and patient assessment skills. Students participate in a variety of clinical learning experiences.

DEH 103

DENTAL ANATOMY AND HISTOLOGY

3 CR. (2L/2 CLI)

PRQ: Current enrollment in the Dental Hygiene program. Focuses on a study of the anatomical and histological features of the teeth and other oral structures of the oral cavity. Includes terminology, anatomical landmarks and tooth identification. Introduces histology, the embryology of the face and oral and nasal cavities, development of the teeth and the histological features of the various components of the teeth and surrounding structures.

DEH 104

DENTAL RADIOLOGY

3 CR. (2L/2 CLI)

PRQ: Current enrollment in the Dental Hygiene program. Introduces principles of x-radiation production and safety factors; application and theory of properly exposing, processing, mounting and evaluating radiographs; identification of normal anatomic landmarks and pathologic conditions. Focuses on utilization of the laboratory in performing procedures necessary to produce quality radiographs.

DEH 105

INTRODUCTION TO DENTAL HYGIENE

1 CR. (1.5 LBV)

PRQ: Current enrollment in the Dental Hygiene program. Provides the first-year dental hygiene student with the basic knowledge, theory and skill necessary to advance to subsequent clinical dental hygiene courses. Course includes basic principles of instrument recognition, dental terminology, professionalism, expected ethical behaviors, HIPPA compliance, OSHA standards for infection control and introduction to dental software systems.

DEH 111

DENTAL AND MEDICAL EMERGENCIES

2 CR. (2L)

PRQ: Current enrollment in Dental Hygiene program. Introduces the management of emergency situations in the dental office setting. Emphasizes reduction of risk for emergencies, identification and management of anxiety, and stress recognition protocol. Provides practical skills applicable to dental hygienists and the scope of responsibility for medical emergency management as dictated by state dental practice law. Covers the basic categories of emergencies, causes and management. Includes content and use of emergency kits and oxygen support systems.

DEH 122

PERIODONTICS I

2 CR. (2L)

PRQ: Current enrollment in Dental Hygiene program. Introduces the principles of periodontics. Focuses on recognition of the tissues in health and disease, macro and microanatomy of the periodontium, and histopathology of periodontal diseases and other related gingival conditions. Provides the theory and discussion of periodontal assessment, etiology, epidemiology, inflammatory process/immune response, and the AAP classification system.

DEH 123

HEAD & NECK ANATOMY

1 CR. (1.5 LBV)

PRQ: BIO 201, BIO 202, current enrollment in Dental Hygiene program. Focuses on the study of head and neck anatomy with emphasis on the muscles of mastication, lymphatics, TMJ, nerve and vascular supply and the oral cavity.

DEH 126

DENTAL MATERIALS

2 CR. (1L/2 CLI)

PRQ: Current enrollment in Dental Hygiene program. Provides the dental hygiene student with a sound knowledge of the science of dental materials. Covers didactic and laboratory experiences and the physical properties, basic chemistry and the clinical applications of the materials used in the practice of dentistry.

DEH 132

APPLIED PHARMACOLOGY

2 CR. (2L)

PRQ: Current enrollment in Dental Hygiene program. Covers general pharmacology and reviews drugs that may influence the management of dental hygiene patients. Enables the student to develop sufficient knowledge of pharmacology to permit safe and effective medical evaluation of patients for dental hygiene treatment.

DEH 133

LOCAL ANESTHESIA

2 CR. (1 L/2 CLI)

PRQ: DEH 111, DEH 123, current enrollment in Dental Hygiene program. Provides a working knowledge of the theory and practice of local anesthesia as applied to the practice of dentistry/dental hygiene. Emphasizes mastery of the armamentarium and techniques of regional anesthesia. Covers the knowledge and skills necessary to administer local anesthetics proficiently and safely.

DEH 134

ADVANCED CLINICAL SKILLS

1 CR. (.7 L/.6 CLI)

PRQ: Current enrollment in Dental Hygiene program. Focuses on dental hygiene theory and laboratory experiences with major topics related to advanced clinical skills, including advanced instrumentation fulcrums, root morphology, periodontal files, periodontal file sharpening, mini curettes, after five curettes, nabors probe, universal focus spray ultrasonics and scaling implants.

DEH 136

CLINICAL DENTAL ROENTGENOLOGY

.5 CR. (1 CLI)

PRQ: Current enrollment in Dental Hygiene program. Enhances clinical competence of basic radiographic principles including intra-oral, positioning techniques, exposure factors, bisecting technique, vertical bitewing survey and management of anatomical deviations.

DEH 138

NITROUS OXIDE/OXYGEN SEDATION

1 CR. (.8 L/.4 CLI)

PRQ: BIO 201, BIO 202, current enrollment in Dental Hygiene program. Provides a working knowledge of the latest equipment and methods of nitrous oxide/oxygen sedation administration in the dental office.

DEH 153

CLINICAL THEORY OF DENTAL HYGIENE I

2 CR. (2L)

PRQ: Current enrollment in Dental Hygiene program. Builds on the broad theoretical basis provided in DEH 101 and DEH 102. Focuses on enhancing patient assessment skills, instrumentation and additional information on preventative and prophylactic clinical procedures.

DEH 170

CLINICAL PRACTICE OF DENTAL HYGIENE I

4.5 CR. (9 CLI)

PRQ: Current enrollment in Dental Hygiene program. Provides clinical experience in patient skills assessment, instrumentation and additional preventative and prophylactic clinical procedures.

DEH 171

CLINICAL PRACTICE OF DENTAL HYGIENE I-A

2 CR. (4 CLI)

PRQ: Current enrollment in Dental Hygiene program. Continues patient care sessions for the performance of traditional dental hygiene treatment. Enables the student to provide treatment to periodontally involved patients utilizing advanced instrumentation and power scaling.

DEH 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

DEH 202

APPLIED NUTRITION IN DENTISTRY

2 CR. (2L)

PRQ: Current enrollment in the Dental Hygiene program. Gives students a fundamental understanding of general nutrition with an emphasis on the interrelationship between nutrition and dental health. Focuses on recognizing nutritional deficiencies and how to conduct and evaluate nutritional surveys on patients.

DEH 204

COMMUNITY DENTAL HEALTH I

2 CR. (2L)

PRQ: Current enrollment in Dental Hygiene program. Course provides instruction in the concepts, methods and issues of dental public health. Emphasis is placed on evidence-based criteria for effective promotion and prevention of dental disease in the public health setting. Concepts of dental health education and program planning in the community setting are reinforced through case-based materials, including methods of assessment, planning, implementation and evaluation of effectiveness. Course activities will reinforce skills in speaking and writing effectively in preparation for the subsequent community dental health field experience course.

DEH 213

GENERAL AND ORAL PATHOLOGY

3 CR. (3L)

PRQ: Current enrollment in Dental Hygiene program. Focuses on the fundamentals of general pathology and the disease process. Covers oral pathology with emphasis on recognition and identification of pathologic conditions that most frequently occur around the oral cavity. Helps students identify appropriate referral mechanisms to render a definitive diagnosis.

DEH 221

ETHICS AND PRACTICE MANAGEMENT

2 CR. (2L)

PRQ: Current enrollment in Dental Hygiene program. Focuses on the transition from an educational environment to a working dental business. Enables the student to learn management skills of operating a dental office. Emphasizes opportunities for self-exploration in development of personal and professional goals. Examines professional ethics, legal issues and the relationship to the licensed practice of dental hygiene.

DEH 225

COMMUNITY DENTAL HEALTH II: FIELD EXPERIENCE

1 CR. (2 CLI)

PRQ: DEH 204. Provides practical application of community dental health theory and opportunities to conduct needs assessments on a variety of populations. Emphasizes meeting the educational needs of specific populations through program planning, implementation and evaluation. Incorporates supervised field experiences in low-income, school and other public facilities, as well as private health and education oriented organizations.

DEH 242

PERIODONTICS II

2 CR. (2L)

PRQ: DEH 122. Continues to explore theoretical/clinical preparations with emphasis on dental hygiene process of care, treatment planning, nonsurgical treatment, evaluation of treatment and maintenance needs of the periodontal patient. Develops research and decision-making skills with use of library and Internet resources relating to risk factors, etiologic agents and treatment modalities. Includes comprehensive periodontal assessment, supplemental diagnostics, periodontal pharmacology and evidence-based treatment planning.

DEH 259

ADVANCED DENTAL HYGIENE THEORY

2 CR. (2L)

PRQ: Current enrollment in Dental Hygiene program. Focuses on the care of patients with special needs, such as physical and mental disabilities and systemic conditions. Emphasizes patient management and treatment considerations.

DEH 266

NATIONAL BOARDS REVIEW

2 CR. (2L)

PRQ: Current enrollment in Dental Hygiene program. Provides formal review sessions for second-year dental hygiene students preparing to sit for the National Board Examination.

DEH 268

CLINICAL THEORY OF DENTAL HYGIENE II

2 CR. (3 LBV)

PRQ: Current enrollment in Dental Hygiene program. Provides the didactic theory for clinical practice of dental hygiene skills at the beginning of the second year of dental hygiene curriculum. Builds on clinic theory from first year curriculum to provide the knowledge base needed for treatment of patients with more advanced periodontal disease and medical/health factors. Focuses on periodontal charting and documentation, interpretation of periodontal factors on radiographs, use of treatment planning in the dental hygiene process of care, legal parameters of record keeping and informed consent, use of oral photography, application of sealants, treatment of dental hypersensitivity, application of chemotherapeutics and professional oral irrigation, application of ergonomics in dentistry, clinical dental hygiene treatment considerations for patients with history of cardiac complications and diabetes.

DEH 270

CLINICAL PRACTICE OF DENTAL HYGIENE II

6 CR. (12 CLI)

PRQ: Current enrollment in Dental Hygiene program. Covers patient care sessions for the performance of traditional dental hygiene treatment. Continues and expands periodontal patient care and special patient care sessions. Focuses on clinical competence in margination and polishing of restorations, nutrition counseling, oral irrigation, chemotherapeutics and OSHA compliance.

DEH 271

CLINICAL PRACTICE OF DENTAL HYGIENE III

6 CR. (12 CLI)

PRQ: Current enrollment in Dental Hygiene program. Continues patient care session with emphasis on attaining a level of competency and efficiency for successful performance in clinical board exams and private practice. Focuses on clinical skill development in tobacco cessation, product selection, patient communications, curettage and special topics developed patient treatments. Provides elective extramural clinical sites for additional practice.

DEH 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

DEH 282

PERIODONTICS III

1 CR. (1.5 LBV)

PRQ: DEH 122. Course provides comprehensive dental hygiene clinical management techniques for periodontal patients supported by application of basic clinical research sciences. Focus is on the therapy component of periodontics, including instructional sessions covering the general principles of periodontal surgery, the surgical management of soft tissues and osseous defects, wound healing, implants, and the role of occlusion in periodontal therapy.

DEH 285

CLINICAL THEORY OF DENTAL HYGIENE III

2 CR. (3 LBV)

PRQ: Current enrollment in Dental Hygiene program. Serves as the capstone course of the final semester of a two-year curriculum. Prepares the student for two major goals - basic competence for transition to provision of dental hygiene services in private practice and the ability to successfully pass both written National Boards examinations and regional dental hygiene clinical examinations. Emphasizes the application of case-based learning. Major topics include cosmetic bleaching, air powered polishing devices, application of the re-evaluation process in treatment planning for periodontally involved cases, preparation for the CRDTS regional clinical exam process, application of an effective tobacco cessation process, technique and process for gingival curettage, technique and process for amalgam polishing and margination, care of cosmetic dental restorations, and maintenance of implants.

DEH 301

Advanced Careers in Dental Hygiene

3 CR. (3L)

PRQ: Math 135 and admission to the program. This course provides an overview of the career options available to the dental hygienist with an advanced degree. In-depth analysis of alternative careers to include public health systems, dental hygiene education, research, sales and marketing, oral health policy and oral health care delivery systems.

DEH 302

APPLIED DENTAL HYGIENE RESEARCH METHODOLOGIES

3 CR. (3L)

PRQ: Math 135 and admission to the program. Develops the skills necessary to identify and develop a research topic, navigate a research database and develop an effective, scientifically sound and persuasive research paper with specific emphasis on dental and dental hygiene topics.

DEH 341

CLINICAL TEACHING METHODOLOGIES

3 CR. (3L)

PRQ: DEH 411. This course provides students the opportunity to compare and contrast practical experience as it relates to dental hygiene clinical instruction. Students will apply teaching methodologies, psychomotor learning theories, feedback techniques and motivational strategies to direct student learning.

DEH 343

PRINCIPLES OF CONFLICT RESOLUTION IN DENTISTRY

3 CR. (3L)

PRQ: DEH 301 and DEH 302. This course studies the principles of conflict resolution as it relates to the profession of dental hygiene. Students will learn the strategies available for resolving conflicts with peers, team members, patients and employers. Students will reflect on their own strategies for resolving conflicts based on practical experiences.

DEH 355

SOCIAL AND BEHAVIORAL DETERMINANTS OF ORAL HEALTH

3 CR. (3L)

PRQ: MAT 135 and admission into the program. Evaluate the complexity and interplay of social and physical environmental structures, economic systems and behavioral patterns that affect overall health with a focus on health services, health beliefs and their impact on health-related behavior choices.

DEH 387

DENTAL HYGIENE LEADERSHIP AND ADMINISTRATION

3 CR. (3L)

PRQ: MAT 135 and admission into the program. Examining the skills needed for leadership roles in public health, community health, education, business and industry with emphasis on leadership theories and application.

DEH 411

TEACHING METHODOLOGIES

4 CR. (4L)

PRQ: DEH 301 and DEH 302. This course provides a general overview of the concepts and theory relative to dental hygiene education. Students will be introduced to dental hygiene accreditation standards, outcomes-centered objectives, syllabus development, lesson planning, content delivery, test construction and assessing student learning. Students will explore the various learning styles and technology available for delivery of course content.

DEH 455

TOPICS IN DENTAL PUBLIC HEALTH

4 CR. (4L)

PRQ: MAT 135 and Admission into Program. Provides a comprehensive overview in public health as it relates to the field of dentistry. Surveys and analyzes oral health services, community programs, disease prevention, policy, ethics and issues facing the profession today.

DEH 471

ADVANCED PHARMACOLOGY

4 CR. (4L)

PRQ: DEH 301 and DEH 302. This course provides the student with current research application of pharmacology as it relates to the oral manifestations and complications of associated drugs. Students will investigate the effects, oral implications, treatment considerations and contraindications for the management of patient care. This course will study the most frequently used drugs by patients today and determine the overall impact on oral health.

DEH 489

CAPSTONE: DENTAL HYGIENE

4 CR. (4 SEM)

PRQ: DEH 411, DEH 341 or DEH 355, DHE 455. Provides the student an opportunity to participate in a cumulative learning experience that integrates theory and applies previously learned knowledge and skill. The student will design, implement and evaluate a project related to their specific area of interest.

Diagnostic Medical Sonography

DMS 101

INTRODUCTION TO SONOGRAPHY

2 CR. (2L)

Provides an overview of sonography for students interested in the Diagnostic Medical Sonography program with an introduction to pulse-echo imaging, general sonography, cardiac sonography, vascular technology and typical career opportunities.

DMS 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

DMS 205

SMALL PARTS ULTRASOUND

2 CR. (1L/2 CLI)

PRQ: DMS 221, DMS 231, DMS 241, DMS 281. CORQ: DMS 206, DMS 282. Designed to teach specific knowledge of anatomy of the breast, thyroid, scrotum, prostate and the surrounding structures. The ability to identify pathology or to locate abnormalities is also an intricate part of the class.

DMS 206

VASCULAR ULTRASOUND

2 CR. (1L/2 CLI)

PRQ: DMS 221, DMS 231, DMS 241, DMS 281. CORQ: DMS 205, DMS 282. Covers basic positioning and scanning protocol of the vascular system. Review of the anatomy, hemodynamics and terminology unique to the vascular system with emphasis on the external carotid system, the upper and lower venous and arterial systems and the abdominal vasculature will be included.

DMS 221

OB/GYN ULTRASOUND I

2 CR. (1L/2 CLI)

PRQ: BIO 202, BIO 216, RTE 255. CORQ: DMS 231, DMS 241, DMS 281. Provides a systematic study of embryology to include development of the major organ systems, with correlation to sonographic imaging, at all stages of embryonic/fetal development and the surrounding environment and the ultimate mastery of the foundations of obstetric and gynecological sonography.

DMS 222

OB/GYN ULTRASOUND II

2 CR. (1L/2 CLI)

PRQ: DMS 221, DMS 231, DMS 241, DMS 281. CORQ: DMS 232, DMS 242, DMS 283. Provides a systematic study of embryology to include development of the major organ systems, with correlation to sonographic imaging, at all stages of embryonic/fetal development and the surrounding environment and the ultimate mastery of the foundations of obstetric and gynecological sonography.

DMS 231

ABDOMINAL ULTRASOUND I

2 CR. (1L/2CLI)

PRQ: BIO 202, BIO 216, RTE 255. CORQ: DMS 221, DMS 241, DMS 281. Offers a systematic study of the abdomen to include the function and development of the major organ systems with correlation to sonographic imaging and the surrounding environment. The student will master the foundations of sectional anatomy and abdominal sonography.

DMS 232

ABDOMINAL ULTRASOUND II

2 CR. (1L/2 CLI)

PRQ: DMS 221, DMS 232, DMS 241, DMS 281. CORQ: DMS 222, DMS 242, DMS 283. Offers a systematic study of the gastrointestinal tract, pediatric abdomen, neonatal brain and transplanted organs. The student will review the necessary sterile technique preceding invasive and intraoperative procedures and will learn the applications of contrast agents in ultrasound. Other imaging techniques will be discussed, as well as the principles guiding the field of sonography. A mock registry examination will be administered to prepare the student for writing the national registry examination.

DMS 241

ULTRASOUND PHYSICS I

2 CR. (1L/2 CLI)

PRQ: BIO 202, BIO 216, RTE 255. CORQ: DMS 221, DSM 231, DMS 281. Presents the theoretical and practical approach to understanding the fundamentals of ultrasound physics, instrumentation, image characteristics, artifacts and bio-effects. The ergonomics of proper scanning techniques (setting up the cart, chair and room properly to avoid musculoskeletal injury) will also be presented.

DMS 242

ULTRASOUND PHYSICS II

2 CR. (1L/2 CLI)

PRQ: DMS 221, DMS 231, DMS 241, DMS 282. CORQ: DMS 222, DMS 232, DMS 283. Covers a detailed study of ultrasound physics and the application within the clinical setting. Manipulation of technique controls, basic mathematical concepts, various Doppler modalities, equipment artifacts, QC/QA procedures, 3D fundamentals and bio effects are covered. Note: The comprehensive final is in a registry review format.

DMS 244

ULTRASOUND SCANNING LAB

3 CR. (6 CLI)

PRQ: Program admission. Prepares the sonography student for ultrasound internship with an emphasis on applied instrumentation, ergonomics and image optimization. Prerequisite: Enrollment in a DMS Program.

DMS 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

DMS 280

CLINICAL OBSERVATION

2.5 CR. (7.5 INT)

PRQ: BIO 202, BIO 216, RTE 255; CORQ: BIO 102, BIO 216, RTE 255, DMS 221, DMS 231, DMS 241, DMS 244. Prepares the beginning ultrasound student for clinical internship under the direct supervision of a registered sonographer with a focus on introductory skills necessary for clinical internship, to include instrumentation, scanning techniques and image evaluation. The student will spend seven hours per week at the clinical site for training in patient care and work efficiency in the clinical setting.

DMS 281

CLINICAL INTERNSHIP I

8 CR. (24 INT)

PRQ: DMS 244, DMS 280. Offers the initial clinical course wherein the fundamental principles of abdominal, OB/GYN and ultrasound physics will be applied under the direct supervision of a registered sonographer. The mastery of the foundations of instrumentation, scanning techniques, and image evaluation in sectional planes in abdominal and OB/GYN sonography will be stressed.

DMS 282

CLINICAL INTERNSHIP II

8 CR. (24 INT)

PRQ: DMS 281. Offers continued clinical experience for the ultrasound student. Application of the small parts didactic lectures will be applied and will include image evaluation and cross-sectional anatomy of the thyroid, breast and scrotum. The foundations of vascular anatomy, instrumentation, scanning techniques and image evaluation will be stressed. The student will spend 30 hours per week at the clinical site under the direct supervision of a registered sonographer.

DMS 283

CLINICAL INTERNSHIP III

8 CR. (24 INT)

PRQ: DMS 282. Continues clinical experience for the ultrasound student. Application of the topics covered in advanced didactic lectures to include an introduction to invasive procedures using ultrasound guidance. Sterile technique and standard precautions will be reviewed. The student will spend 30 hours per week at the clinical site under the direct supervision of a registered sonographer.

DMS 289

ULTRASOUND CAPSTONE

3 CR. (3L)

PRQ: DMS 282. CORQ: DMS 283. Prepares the sonography student to effectively search for a job and sit for the American Registry of Diagnostic Medical Sonographers examination in their specialty.

Diesel Power Mechanics

**DPM 101

DIESEL SHOP ORIENTATION

2 CR. (1L/1.5 LBV)

Focuses on maintaining a safe and clean working heavy-duty diesel shop. Emphasis is placed on the proper safe use and care of hand, electric, air and hydraulic tools. Covers how to clean equipment properly, handle and dispose of hazardous materials correctly, and apply mandated regulations. Emphasis is also placed on proper lifting equipment.

DPM 103

DIESEL ENGINES I

4 CR. (1L/4.5 LBV)

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 CR. (1L/3 LBV)

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 CR. (1L/3 LBV)

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 111

PREVENTIVE MAINTENANCE I

1.5 CR. (2.25 LBV)

Enables the student to perform preventive maintenance on heavy equipment and trucks and complete appropriate maintenance records. Addresses the process of diagnostics and troubleshooting. Focuses on the importance of preventive maintenance.

DPM 121

HYDRAULIC SYSTEMS I

3 CR. (1L/2 LBV)

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 CR. (1L/3 LBV)

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 140

H/D STEERING & SUSPENSION I

3 CR. (1L/3 LBV)

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

4 CR. (6 LBV)

Continues to build upon the principles that are expected to be understood by students.

DPM 171

LAB EXPERIENCE II

3 CR. (4.5 LBV)

Continues to build upon the principles that are expected to be understood by students,

DPM 172

LAB EXPERIENCE III

4 CR. (6 LBV)

Continues to build upon the principles that are expected to be understood by students.

DPM 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

DPM 203

DIESEL ENGINES II

4 CR. (1L/4.5 LBV)

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 CR. (1L/3 LBV)

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 CR. (1L/3 LBV)

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 CR. (1L/3 LBV)

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 222

H/D LIGHTING & INSTRUMENTATION

3 CR. (1L/3 LBV)

Provides students with diagnosis and repair of lighting systems found on medium- and heavy-duty trucks and equipment. Emphasis on inspecting and testing of electrical circuits, switches and interfacing through data bus with on-board computers.

DPM 240

H/D STEERING & SUSPENSION II

3 CR. (1L/3 LBV)

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 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

DPM 280

INTERNSHIP

4 CR. (12 INT)

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.

Driving

DRV 130

PREPARING FOR CDL

2 CR. (1L/1.5 LBV)

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 CR. (1L/1.5 LBV)

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 & REGULATIONS

4 CR. (3L/1.5 LBV)

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 & MAINTENANCE

3 CR. (1L/3 LBV)

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 CR. (9 LBV)

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.

DRV 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

DRV 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Early Childhood Education

ECE 101

INTRODUCTION TO EARLY CHILDHOOD EDUCATION

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. Provides an introduction to the profession of Early Childhood Education (ECE). Course content includes eight key areas of professional knowledge related to working with young children and their families in early care and education settings - child growth and development; health, nutrition and safety; developmentally appropriate practices; guidance; family and community relationships; diversity and inclusion; professionalism; and administration and supervision. This course addresses children ages birth through 8 years.

ECE 102

INTRODUCTION TO EARLY CHILDHOOD TECHNIQUES

3 CR. (1L/3 LBV)

PRQ: Successful completion of ECE 101. Focuses on a classroom seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, practice appropriate interactions and develop effective guidance and management techniques. Addresses ages birth through 8 years.

ECE 103

GUIDANCE STRATEGIES FOR YOUNG CHILDREN

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. Explores guidance theories, applications, goals and techniques, as well as factors that influence behavioral expectations of children. This course includes classroom management and pro-social skills development of young children in early childhood (EC) program settings. This course addresses children ages birth through 8 years.

ECE 111

INFANT AND TODDLER THEORY AND PRACTICE

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. 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. Focuses on birth through age 3.

ECE 112

INTRO TO INFANT/TODDLER LAB TECHNIQUES

3 CR. (1L/3 LBV)

PRQ: Successful completion of ECE 111. Includes a classroom seminar and placement in an infant and/or toddler setting. The supervised placement provides the student with the opportunity to observe, practice appropriate interactions and develop effective guidance and nurturing techniques with infants and/or toddlers. Addresses ages prenatal through age 2.

ECE 125

SCIENCE/MATH AND THE YOUNG CHILD

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. 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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ECE 178

WORKSHOP

0.5-6 CR. (0.5-6L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. Provides students with an experiential learning opportunity.

ECE 205

NUTRITION, HEALTH AND SAFETY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. Focuses on nutrition, health and safety as key factors for optimal growth and development of young children. This course includes nutrition knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities and communication with families for early childhood educators. This course addresses children ages birth through 12 years.

ECE 220

ECE CURRICULUM DEVELOPMENT METHODS AND TECHNIQUES

3 CR. (3L)

PRQ: Successful completion of ECE 101, ECE 102, and ECE 103.. Provides an overview of early childhood curriculum development. This course includes processes for planning and implementing developmentally appropriate environments, materials and experiences that represent best practices in early childhood (EC) program settings. This course addresses children ages birth through 8 years.

ECE 225

LANGUAGE AND COGNITION FOR THE YOUNG CHILD

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. 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 8 years.

ECE 226

CREATIVITY AND THE YOUNG CHILD

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. 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 8 years.

ECE 236

CHILD GROWTH/DEVELOPMENT LAB

3 CR. (1L)

Covers the growth and development of the child from conception through the elementary school years. Emphasizes physical, cognitive, language, social and emotional domains and the concept of the whole child and how adults can provide a supportive environment. Addresses ages from prenatal through 12 years.

ECE 238

ECE CHILD GROWTH AND DEVELOPMENT

3 CR. (3L)

PRQ: Successful completion of ECE 101 and ECE 102. Covers the growth and development of the child from conception through the elementary school years. This course emphasizes physical, cognitive, language, social and emotional domains of development as they pertain to the concept of the whole child. It also includes ways adults can provide a supportive early childhood care and educational environment through teamwork and collaboration.

ECE 240

ADMINISTRATION OF EARLY CHILDHOOD CARE AND EDUCATION PROGRAMS

3 CR. (3L)

PRQ: Successful completion of ECE 101, ECE 102, ECE 103, ECE 220, and ECE 238. Provides foundational knowledge in early childhood program business operations, program development and evaluation. This course covers administrative skills, ethical decision making, risk and resource management, and components of quality Early Childhood Education (ECE) programs serving children ages birth through 12 years.

ECE 241

ADMINISTRATION: HUMAN RELATIONS FOR EARLY CHILDHOOD EDUCATION

3 CR. (3L)

PRQ: Successful completion of ECE 101, ECE 102, ECE 103, ECE 220, and ECE 238. Focuses on the human relations component of an early childhood professional's responsibilities. This course includes director-staff relationships, staff development, leadership strategies, family-professional partnerships and community interaction.

ECE 256

WORKING WITH PARENTS, FAMILIES, AND COMMUNITY SYSTEMS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. Examines personal attitudes regarding families, family values systems, and how personal attitudes affect parent-professional partnerships in the early childhood education program. This course covers communication, problem-solving and conflict resolution strategies. Effective activities and resources to support family involvement in the classroom will be created. This course addresses children ages birth through 8 years.

ECE 260

THE EXCEPTIONAL CHILD

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of any CCR course with a grade of S/C or better. Presents an overview of critical elements related to educating young children with disabilities or special needs in the early childhood setting. Topics include typical and atypical development; legal requirements; research-based practices related to inclusion; teaming and collaboration; and accommodations and adaptations. This course examines how a disability or special need may impact a young child's learning process. This course addresses children ages birth through 8 years.

ECE 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ECE 288

PRACTICUM: EARLY CHILDHOOD EDUCATION

3 CR. (1L/4 PRC)

PRQ: Successful completion of ECE 101, ECE 102, and ECE 220. Provides students with advanced field experience opportunities in early childhood education programs.

Economics

ECO 105

INTRODUCTION TO ECONOMICS

3 CR. (3L)

This course is a survey of economics. It is designed as a beginning economics class. The course covers economics theories, supply and demand, national income accounting, money and banking, market structures and contemporary economic issues.

ECO 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ECO 201

PRINCIPLES OF MACROECONOMICS: GT-SS1

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Focuses on the study of the American economy, stressing the interrelationships among household, business and government sectors. Explores saving and investment decisions, unemployment, inflation, national income accounting, taxing and spending policies, the limits of the market and government, public choice theory, the Federal Reserve System, money and banking, and international trade. This course is one of the statewide Guaranteed Transfer courses, GT-SS1.

ECO 202

PRINCIPLES OF MICROECONOMICS: GT-SS1

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Studies the firm, the nature of cost and how these relate to the economy as a whole. Analyzes economic models of the consumer, perfect competition, monopoly, oligopoly and monopolistic competition. Explores economic issues including market power, population growth, positive and negative externalities, income distribution, poverty and welfare, discrimination, and international economic interdependence. This course is one of the statewide Guaranteed Transfer courses, GT-SS1.

ECO 245

ENVIRONMENTAL ECONOMICS: GT-SS1

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption. Introduces students to contemporary environmental issues and policies meant to reduce environmental degradation. Includes market failures, analytical tools, government pollution reduction policies for air, water and natural environments and their effectiveness. This course is one of the statewide Guaranteed Transfer courses, GT-SS1.

ECO 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Education

EDU 110

**OVERVIEW OF SPECIAL POPULATIONS FOR
PARAEDUCATORS**

3 CR. (3L)

Develop knowledge in the areas of laws and history of special education; roles and responsibilities of paraeducators; planning for students with disabilities; typical and nontypical developmental stages of children and youth; basic learning concepts; cognitive, communicative, physical and affective needs of students with disabilities; understanding people with disabilities; transition and job coaching; and how to teach students self-advocacy skills.

EDU 111

**COMMUNICATION SKILLS WITH SPECIAL POPULATIONS
FOR PARAEDUCATORS**

3 CR. (3L)

Allows students to develop 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 CR. (1L)

Allows students to develop 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 CR. (3L)

Allows students to develop knowledge in the areas of behavior modification, teaching appropriate behaviors, contingency contracts, observing and recording behavior, lunchroom supervision and playground supervision.

EDU 131

INTRODUCTION TO ADULT EDUCATION

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Provides an introduction to adult education with an emphasis on providing instruction to adult learners developing their ability to listen, speak, read and write in English and learners with skills below 12th-grade equivalency. Key areas include adult education theories, principles, methods and techniques; adult education legislation, initiatives and movements; adult basic education services and service providers; understanding the adult learner; metacognition; the instructional environment; and professional development for adult educators.

EDU 132

PLANNING & DELIVERING INSTRUCTION TO ADULT LEARNERS

3 CR. (3L)

PRQ: Successful completion of EDU 131. Provides an introduction to planning and delivering instruction to adult learners with an emphasis on developing the English language proficiency of non-native English speakers and improving the skills of learners whose skills are below 12th-grade equivalency. Key areas include identification of learners' skills, needs and goals; the use of information about learners to plan instruction and assessment; the development of learner independence; the creation of an instructional environment that supports and engages adult learners.

EDU 133

TEACHING ADULT BASIC EDUCATION (ABE) & ADULT SECONDARY EDUCATION (ASE)

3 CR. (3L)

PRQ: Successful completion of EDU 131. Provides an introduction to providing literacy and numeracy skills instruction to adult learners functioning below 12th grade equivalency. Key areas include understanding the Adult Basic Education and Adult Secondary Education learner and the literacy and numeracy skills needed to complete each Educational Functioning Level; preparing written instructional plans; delivering level-appropriate instruction using techniques and resources appropriate for ABE and ASE learners; using technology; and preparing learners to transition to postsecondary education and careers.

EDU 134

TEACHING ENGLISH AS A SECOND LANGUAGE TO ADULT LEARNERS

3 CR. (3L)

PRQ: Successful completion of EDU 131. Provides an introduction to providing instruction to adults who are developing English language proficiency. Key areas include understanding the adult ESL learner, the language acquisition process and the language skills needed to complete each Educational Functioning Level (EFL); preparing written instructional plans; delivering level appropriate instruction using techniques and resources appropriate for adult language learners; using technology; and preparing adult ESL learners to transition to postsecondary education and careers.

EDU 135

FAMILY LITERACY IN ADULT EDUCATION

3 CR. (3L)

PRQ: Successful completion of EDU 131. Introduces the students to the philosophy and theory behind family literacy, as well as give practical advice on the development and implementation of a family literacy program. The four-component model of adult education, early childhood education, parent and child together time (PACT), and parenting will be covered, both in theory and practical application.

EDU 141

BASIC INSTRUCTIONAL TECHNIQUES FOR PARAEDUCATORS

3 CR. (3L)

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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

EDU 221

INTRODUCTION TO EDUCATION

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (1L)

PRQ: Department chair approval. 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 250

CTE IN COLORADO

1 CR. (1L)

PRQ: Department chair approval. This course is intended for faculty and instructors. Explores common elements of Career and Technical Education 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, the Colorado Technical Act, 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 260

ADULT LEARNING AND TEACHING

3 CR. (3L)

PRQ: Department chair approval. Examines the philosophy of community colleges and/or secondary schools and the roles and responsibilities of the faculty member within the college/school 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 AND TECHNOLOGY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 AND LEARNING ONLINE

3 CR. (3L)

PRQ: Successful completion of EDU 221 and EDU 261 or department chair approval. 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 266

ADV. COLLEGE TEACHING METHODS

1 CR. (1L)

PRQ: Successful completion of ENG 121 or department chair approval. 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.

EDU 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Electricity Ind/Commercial

EIC 101

JOB TRAINING & SAFETY

3 CR. (3L)

Studies first aid, CDL, basic use and care of personal protective equipment, use and care of climbing equipment, daily inspection and basic use of motorized equipment.

**EIC 104

BASICS OF INDUST ELECTRICITY

1.5 CR. (1L/.5 LBV)

Focuses on resistance, current, voltage and power in AC and DC circuits; measurements; computations of series and parallel circuits; circuit analysis; and troubleshooting with basic test equipment.

**EIC 105

BASICS OF AC & DC ELECTRICITY

4 CR. (4L)

Focuses on resistance, current, voltage and power in AC and DC circuits; measurements; computations of series and parallel circuits; circuit analysis; and troubleshooting with basic test equipment.

EIC 106

POWER THEORY & HIGH VOLT APPAR

3 CR. (3L)

PRQ: ELT 106. Focuses on Ohm's Law, measurements, fundamentals of AC and DC circuits, with an emphasis on transformers and transformer connections, identify key elements in high voltage electrical systems from the generation station to the end consumer.

**EIC 110

ELECTRICAL INSTALLATIONS I

4 CR. (3L/1 LBV)

Covers residential building wiring in conformance with the current National Electrical Code and local codes using nonmetallic cable. Emphasizes proper use of tools and safety.

EIC 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

EIC 222

INSTRUMENT & PROCESS CONTROL

1.5 CR. (1L/.75 LBV)

PRQ: ELT 106. CORQ: ELT 257. Investigates theory of industrial instrumentation measurement through process control. Includes theory and measurement methods for temperature, pressure, level and flow. Incorporates hands-on training equipment to measure temperature and pressure and perform calibration of a pressure differential transmitter. Enables the student to construct a closed loop and tune the loop. Test equipment is used to simulate a two-wire transmitter and source a current signal for calibration of an I/P transducer.

**EIC 225

PROGRAMMABLE CONTROLLERS

4 CR. (3L/1 LBV)

Studies the use of solid-state control equipment, primarily the programmable controller and associated solid-state sensors to control equipment, machinery or complete processes. Includes concepts of solid-state logic, characteristics of solid-state sensors; conversions of relay logic control systems to programmable control systems; and microprocessor-based systems and remote control of processes. Enables the student to design, implement and test control systems in the laboratory to meet specifically assigned control problems. Emphasizes accuracy, safety and National Electrical Code requirements.

EIC 255

ELECTRICAL ISSUES FOR TELECOMMUNICATIONS

.5 CR. (.5L)

Examines telecom/datacom system installation with electrical systems including pathways, distribution and supply, grounding and bonding, UPS and lighting. Explores improvements and new technologies and enables the telecom/datacom professional to assess and secure an overview of the communications industry convergence with the electrical field.

EIC 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Electronics

ELT 101

SURVEY OF ELECTRONICS

3 CR. (1L/3 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (1L/4.5 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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

INDUSTRIAL ELECTRONICS

3 CR. (1L/3 LBV)

Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

ELT 112

ADVANCED DC-AC

3 CR. (1L/3 LBV)

PRQ: MAT 108. 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 CR. (1L/3 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, ELT 101; or department chair approval. 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 CR. (1L/3 LBV)

PRQ: ELT 134, ELT 112. 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, JFETs and MOSFETs, depletion and enhancement mode devices, biasing techniques, thyristors, SCRs and variations of the SCR family of devices. 68 contact hours.

ELT 138

POWER CONTROL DEVICES

2 CR. (1L/1.5 LBV)

PRQ: ELT 106. Covers the specifications and operation of SCRs, triacs, diacs, unijunction transistors, PUTs and solid-state relays. Enables the student to construct and test circuits with power control devices. Troubleshooting is emphasized.

ELT 147

DIGITAL DEVICES I

4 CR. (1L/4.5 LBV)

PRQ: ELT 101, CIS 110 or equivalent assessment test score. 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 CR. (1L/3 LBV)

PRQ: ELT 147. 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 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ELT 231

ELECTRONIC INSTRUMENTS

3 CR. (.6L/4.6 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Enables the student to study the system of standards used for measurement and to demonstrate the principles of electronic measurements by the selection, application and limitations of common electronic test equipment. 68 contact hours.

ELT 252

MOTORS AND CONTROLS

3 CR. (1L/3 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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. 68 contact hours.

ELT 254

INDUSTRIAL WIRING

3 CR. (2L/1.5 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Focuses on the required and recommended practice for industrial wiring. The National Electrical Code is applied to industrial power and control wiring. Covers specification and installation of wiring, conduit, enclosures and termination components in lecture and applied during lab.

ELT 257

SENSORS AND TRANSDUCERS

3 CR. (1L/3 LBV)

PRQ: ELT 101, ELT 106. 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. 68 contact hours.

ELT 258

PROGRAMMABLE LOGIC CONTROLLERS

3 CR (1L/3 LBV)

PRQ: ELT 101. 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 CR. (1L/3 LBV)

PRQ: 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 CR. (2L/1.5 LBV)

PRQ: ELT 134. 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 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ELT 280

INTERNSHIP

1-12 CR. (3-36 INT)

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.

ELT 289

AUTOMATED SYSTEMS/ROBOTICS: CAPSTONE

3 CR. (4.5 LBV)

Enables the student to plan, construct and evaluate a modified flexible manufacturing system using a programmable logic controller, industrial computer, robot and work cell peripherals. Addresses safety and emergency control procedures throughout this course.

Emergency Medical Services

EMS 115

EMERGENCY MEDICAL RESPONDER

3 CR. (3L)

Provides the student with core knowledge and skills to function in the capacity of a first responder arriving at the scene of an emergency, providing supportive care until advanced EMS help arrives.

EMS 116

FIRST RESPONDER REFRESHER

2 CR. (2L)

Provides the First Responder student with needed updates and review materials to renew and maintain the First Responder certificate.

EMS 121

EMT FUNDAMENTALS

3 CR. (2L/1.5 LBV)

PRQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. Introduces the Emergency Medical Technician (EMT) student to prehospital emergency care. The topics included in this course are Emergency Medical Services (EMS) systems, well-being of the EMT, communications, documentation, anatomy, airway management and patient assessment.

EMS 122

EMT MEDICAL EMERGENCIES

4 CR. (3L/1.5 LBV)

PRQ: EMS 121. PRQ: EMS 170. 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 CR. (1L/1.5 LBV)

PRQ: EMS 121. 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 CR. (1L/1.5 LBV)

PRQ: EMS 121. 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 CR. (1L/1.5 LBV)

PRQ: Student must have current Colorado EMT certification or EMS department approval. 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. S/U

EMS 127

AEMT SPECIAL CONSIDERATIONS

1 CR. (.5L/.75 LBV)

PRQ: Acceptance into the AEMT Program. Introduces the Advanced Emergency Medical Technician (AEMT) student to the fundamental knowledge of growth, development and aging considerations in the emergency patient. The student will learn to use assessment findings to provide basic and selected advanced emergency care and transportation for a patient with special needs. These include the obstetric patient, neonatal patient, pediatric patient, geriatric patient and patients with special challenges. Learners will apply this knowledge to patient assessment and the development of a treatment plan in a simulated setting. This course also provides an overview of the principles of safe ground ambulance operations, incident management, multiple casualty incidents, air medical responses, vehicle extrication, hazardous material awareness and terrorism and disaster response. Learners will apply critical thinking skills to ensuring the safety of a scene and a plan for safe patient care and transportation.

EMS 129

AEMT PHARMACOLOGY

1 CR. (.5L/.75 LBV)

PRQ: Acceptance into the AEMT Program. Provides the Advanced Emergency Medical Technician (AEMT) student with a basis for making clinical decisions in the pharmacologic management of patients commonly encountered in the pre-hospital setting. Topics include the legal and ethical aspects of pharmacotherapy, roles, responsibilities and techniques associated with medication preparation and administration, the classification and naming of medications, pharmacokinetics, pharmacodynamics, and medication calculations. In addition the mechanism of action, dose, route(s) of administration, therapeutic effects, adverse effects, and therapeutic indications for medications within the Advanced Emergency Medical Technician scope of practice are discussed in detail.

EMS 130

EMT INTRAVENOUS THERAPY

2 CR. (1.25L/.375 LBV/1 CLI)

PRQ: Current Colorado Certification as an EMT or department chair approval. 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 131

AEMT FUNDAMENTALS

2 CR. (1L/1.5 LBV)

PRQ: Acceptance into the AEMT Program. Provides the Advanced Emergency Medical Technician (AEMT) student with instruction in EMS systems, communications and documentation, pathophysiology, airway management, and the role of EMS in public health.

EMS 133

AEMT MEDICAL EMERGENCIES

2 CR. (1L/1.5 LBV)

PRQ: Acceptance into the AEMT Program. Introduces the Advanced Emergency Medical Technician (AEMT) student to a fundamental knowledge of emergency care for the medical patient. This course provides instruction in the integration of physical exam findings, history findings and pathophysiology when assessing and treating the medical patient. Topics addressed include neurology, immunology, infectious diseases, endocrine disorders, cardiovascular disorders, toxicology, respiratory emergencies, hematology and renal disorders.

EMS 135

AEMT TRAUMA EMERGENCIES

2 CR. (1L/1.5 LBV)

PRQ: Acceptance into the AEMT Program. Introduces the Advanced Emergency Medical Technician (AEMT) student to a fundamental knowledge of emergency care for the trauma patient. The student will learn how to utilize assessment findings to provide basic and selected advanced emergency care and transportation for the trauma patient.

EMS 162

WILDERNESS EMS UPGRADE

2 CR. (1L/ LBV)

PRQ: Proof of current license or certification. Provides an enhanced understanding of assessment and treatment skills in a remote challenging environment to currently certified EMS professionals of all levels. This course is designed to align with a variety of Wilderness EMS upgrade programs that focus on wilderness concepts and skills. Students will receive Certification of Completion upon successful completion.

EMS 170

EMT CLINICAL

1 CR. (1.5 LBV)

Provides the EMT student with the clinical experience required for initial certification and some renewal processes.

EMS 171

AEMT CLINICAL INTERNSHIP

2 CR. (6 INT)

PRQ: Acceptance into the AEMT Program. Builds on the Advanced Emergency Medical Technician (AEMT) student's fundamental knowledge of patient care in the clinical and field setting. The student will perform patient assessments through physical examination, and patient interviews of health history and current illness. The student will then use those assessment findings to develop and carry out a patient treatment plan. This will include pediatric, geriatric and adult patients with a variety of presentations. The student will also survey each field scene for safety considerations and scene management.

EMS 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

EMS 178

EMS SEMINAR

1 CR. (1L)

Provides the student with the opportunity to explore local interests and needs in a less formal setting. S/U

EMS 180

EMT CLINICAL INTERNSHIP

2 CR. (6 INT)

Provides the Emergency Medical Technician (EMT) with a supervised clinical learning experience that goes beyond the initial EMT requirements for the State of Colorado Department of Health. Enables the student to work with an assigned preceptor for 90 hours of clinical experience to develop an understanding of the role and responsibilities of the EMT-Basic.

EMS 203

EMT INTERMEDIATE I

6 CR. (4L/3 LBV)

PRQ: Current Colorado Certification as an EMT with IV endorsement, successful completion of any CCR course or qualifying placement score or exemption CORQ: EMS 270. Course provides preparatory information and is the first part of the EMT Intermediate program.

EMS 205

EMT INTERMEDIATE II

6 CR. (4L/3 LBV)

PRQ: EMS 203, EMS 270. Serves as the second course for EMT Intermediate certification.

EMS 206

EMT INTERMEDIATE REFRESHER

3 CR. (2L/1.5 LBV)

PRQ: EMT-I Certification or eligible for recertification. Meets or exceeds minimum requirements for renewing EMT Intermediate or EMT Intermediates in the re-entry program.

EMS 213

PREHOSPITAL TRAUMA LIFE SUPPORT

1 CR. (1L)

Provides basic and/or advanced trauma life support information and skill practice. S/U

EMS 220

PARAMEDIC REFRESHER

3 CR. (2L/1.5 LBV)

PRQ: EMT-P certification or eligibility for recertification. Updates the EMT-P in four specific areas of prehospital emergency care. Includes trauma, medical, Advanced Life Support (ALS) and elective topics focused on ancillary issues in EMS.

EMS 225

FUNDAMENTALS OF PARAMEDIC PRACTICE

3 CR. (3L)

PRQ: BIO 201, current Colorado Certification as an EMT with IV endorsement or higher and acceptance into the Paramedic Education Program. 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 CR. (1.5 LBV/2 CLV)

PRQ: Currently enrolled in EMS 225, or have successfully completed EMS 225. Complete all pre-course screening requirements, including drug test and criminal background check. Instructor approval. Serves as the lab experience to coincide with EMS 225 topics.

EMS 227

PARAMEDIC SPECIAL CONSIDERATIONS

3 CR. (3L)

PRQ: BIO 201, current Colorado Certification as an EMT with IV endorsement or higher and acceptance into the Paramedic Education Program. Introduces the paramedic student to concepts in assessing and meeting the emergency care needs of the neonate, pediatric, geriatric and special needs patient. This course focuses on epidemiology, pathophysiology, assessment and treatment of these patient groups. Common medical and traumatic presentations are addressed. Relevant psychosocial and ethno cultural concepts and legal and ethical implications are integrated throughout.

EMS 228

PARAMEDIC SPECIAL CONSIDERATIONS LAB

2 CR. (1.5 LBV/2 CLV)

PRQ: Completion of pre-course screening including drug screen and criminal background check. CORQ: EMS 227. Teaches the skills necessary for the paramedic to effectively assess and treat neonatal, pediatric, geriatric and special needs patients utilizing skills and simulation scenarios. Serves as the companion course to Paramedic Special Considerations.

EMS 229

PARAMEDIC PHARMACOLOGY

3 CR. (3L)

PRQ: BIO 201, current Colorado Certification as an EMT with IV endorsement or higher and acceptance into the Paramedic Education Program. 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 CR. (1.5 LBV/2 CLV)

PRQ: Currently enrolled in EMS 229, or have successfully completed EMS 229. Teaches the skills necessary for the paramedic to safely and effectively administer emergency medications. Serves as the companion course to Paramedic Pharmacology.

EMS 231

PARAMEDIC CARDIOLOGY

5 CR. (5L)

PRQ: BIO 201, current Colorado Certification as an EMT with IV endorsement or higher and acceptance into the Paramedic Education Program. 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 CR. (.75 LBV/1 CLV)

PRQ: Completion of pre-course screening including drug screen and criminal background check. CORQ: EMS 231. Teaches the skills necessary for the paramedic to effectively assess and treat patients presenting with cardiovascular emergencies utilizing skills and simulation scenarios. Serves as the companion course to Paramedic Cardiology.

EMS 233

PARAMEDIC MEDICAL EMERGENCIES

4 CR. (4L)

PRQ: BIO 201, current Colorado Certification as an EMT with IV endorsement or higher and acceptance into the Paramedic Education Program. 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, nontraumatic musculoskeletal disorders and diseases of the eyes, ears, nose and throat.

EMS 234

PARAMEDIC MEDICAL EMERGENCIES LAB

1 CR. (.75 LBV/1 CLV)

PRQ: Completion of pre-course screening including drug screen and criminal background check. CORQ: EMS 233. Teaches the skills necessary for the paramedic to effectively assess and treat patients with a variety of medical emergencies utilizing skills and simulation scenarios. Serves as the companion course to Paramedic Medical Emergencies.

EMS 235

PARAMEDIC TRAUMA EMERGENCIES

4 CR. (4L)

PRQ: BIO 201, current Colorado Certification as an EMT with IV endorsement or higher and acceptance into the Paramedic Education Program. 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 CR. (.75 LBV/ 1 CLV)

PRQ: Completion of pre-course screening including drug screen and criminal background check. CORQ: EMS 235. Teaches the skills necessary for the paramedic to effectively assess and treat patients with a variety of traumatic emergencies utilizing skills and simulation scenarios. Serves as the companion lab course for Paramedic Trauma Emergencies.

EMS 237

PARAMEDIC INTERNSHIP PREPARATORY

2 CR. (2L)

PRQ: EMS 225, EMS 227, EMS 229, EMS 231, EMS 233, EMS 235 or department chair approval. Reviews concepts and techniques used in the prehospital setting.

EMS 270

CLINICAL: EMS INTERMEDIATE

3 CR. (4.5 LBV)

PRQ: Completion of pre-course screening including drug screen and criminal background check. CORQ: EMS 203. Provides the EMT-I student with the required field experiences as required by the Colorado Department of Health.

EMS 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

EMS 280

PARAMEDIC INTERNSHIP I

6 CR. (18 INT)

PRQ: EMS 237. Provides the first course of a proctored internship to develop paramedic skills in a field setting. The student will gain experience in scene management as a member of an ALS team. The student will also apply advanced life support patient care knowledge to the assessment and treatment of patients.

EMS 281

PARAMEDIC INTERNSHIP II

6 CR. (18 INT)

PRQ: EMS 280. Provides the second course of a proctored internship to develop paramedic skills in a field setting. The student will gain experience in scene management as a leader of the ALS team. The student will also apply advanced life support patient care knowledge to the assessment and treatment of patients.

EMS 282

EMT INTERMEDIATE INTERNSHIP

.25-6 CR. (.75-18 INT)

PRQ: EMS 203, EMS 270. CORQ: EMS 205. Provides the EMT- Intermediate with a supervised clinical learning experience that meets or exceeds the requirements for the State of Colorado Department of Public Health and Environment. Enables the student to work with a preceptor for clinical and internship experience to develop an understanding of advanced life support patient care and assessment. S/U

EMS 285

INDEPENDENT STUDY

1-6 CR. (3-18 INT)

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

****Energy Technology**

**ENY 101

INTRODUCTION TO ENERGY TECHNOLOGIES

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces the energy technologies in use today and those that are in the research stage as possible alternatives. Presents technologies including active solar heating, passive solar heating, wind energy systems, biomass, photovoltaics, co-generation, low and high head hydro, hydrogen, geothermal, power towers and energy storage systems.

**ENY 102

BUILDING ENERGY AUDIT TECH

3 CR. (2L/1.5 LBV)

Teaches the principles of building energy audit techniques to include diagnostic software. During the course the student will perform an energy audit. As a result of the audit, he/she will be able to recommend application of the most appropriate energy-saving treatments such as insulation, windows, appliances and HVAC equipment.

**ENY 121

SOLAR PHOTOVOLTAIC COMPONENTS

3 CR. (2L/1.5 LBV)

PRQ: ELT 101, ELT 106. Reinforces basic safety principles and provides detailed knowledge of photovoltaic components. Also covered is an overview of site analysis and special purpose tools. Upon successful conclusion of this course the student will be able to select proper components for a photovoltaic system based on regulatory codes and standards and individual component specifications.

**ENY 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Engineering

EGG 101

ENGINEERING GRAPHICS I

3 CR. (1L/3 LBV)

PRQ: EGG 100; CORQ: Successful completion of any CCR course or qualifying placement score or exemption. Provides an application of engineering graphics as a communication form and a tool to solve three-dimensional design problems. Topics include orthographic, axonometric, and isometric projections, sections and auxiliary views, the geometry of lines, planes, and curved surfaces. This course is an introduction to PC-based, menu driven, 3D Computer Aided Design systems, spreadsheets, and freehand drawing.

EGG 102

INTRODUCTION TO ENGINEERING METHODOLOGIES

3 CR. (2L/2 LBA)

PRQ: MAT 055. 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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

EGG 211

ENGR MECHANICS I - STATICS

3 CR. (3L)

PRQ: MAT 201. Focuses on the vector and calculus treatment of forces and force systems. Covers concurrent and noncurrent force systems. Includes calculating moments of friction, trusses, centroids and moments of inertia.

EGG 212

ENGINEERING MECHANICS II (DYNAMICS)

3 CR. (3L)

PRQ: MAT 201. Focuses on vector and calculus treatment of the dynamics of particles and rigid bodies using Newton's Laws. Includes work-energy impulse momentum and free and forced oscillations.

EGG 230

THERMODYNAMICS

3 CR. (3L)

PRQ: Successful completion of PHY 212. Explores fundamental concepts and basic theory, including first and second laws of thermodynamics, properties, states, thermodynamic functions, cycles, mixtures, and chemical and phase equilibrium.

EGG 260

ENGINEERING SURVEYING I

5 CR. (2.5L/3.75LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Focuses on plane surveying including pacing, chaining, horizontal and vertical distances, care and use of engineering levels, transits and theodolites. Emphasizes the proper survey note procedures and surveying terminology. Covers various procedures in the calculation of bearings, azimuths and slope reduction.

EGG 261

ENGINEERING SURVEYING II

5 CR. (2.5L/3.75LBV)

PRQ: EGG 260. Introduces land surveying including legal terminology, riparian rights, legal descriptions, common law, statutory law, and the public land survey system. Addresses construction surveying, including notekeeping, construction etiquette, building layout, slope staking, and horizontal and vertical curves. Covers topographic surveying, x, y, z coordinates using total stations, and data collection.

EGG 271

THEORETICAL MECHANICS-STATICS

3 CR. (3L)

PRQ: MAT 122. Emphasizes vectors, resolution and composition of forces in two and three dimensions, vector notation, free body diagrams, static equilibrium of rigid bodies, moments, couples, centroids, and moments of inertia.

EGG 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Engineering Graphic Tech

EGT 101

TECHNICAL DRAFTING 1

3 CR. (1L/3LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces the student to basic engineering graphics technology principles through development of basic entry-level drafting skills. Enables the student to develop skills in sketching, reading drafting scales, interpreting line types, lettering techniques, geometric construction, orthographic projection, and drawing reproduction.

EGT 143

CIVIL/SURVEY DRAFTING I

3 CR. (1L/3LBV)

PRQ: CAD 202. Focuses on civil and survey drafting skills necessary to produce document sets of land surveys/plats, legal descriptions, site layout, plan, profile and alignments, pipe layouts, contour maps and earthwork.

EGT 205

GEOMETRIC DIMENSION & TOLERANCE

3 CR. (3L)

PRQ: EGT 101 or MTE 106. 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 243

CIVIL/SURVEY DRAFTING II

3 CR. (1L/3LBV)

PRQ: CAD 202. Focuses on advanced civil and survey drafting skills. Students will create computer-aided drawings using traverses, legal descriptions, horizontal and vertical curves, land sections, and coordinates. Emphasizes field note interpretation.

EGT 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Engineering Technology

ENT 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ENT 244

SURVEYING III

3 CR. (1L/3 LBV)

PRQ: ENT 142, CAD 101. Focuses on advanced electronic surveying techniques. Introduces data collection and processing via computer software.

ENT 247

STRENGTH OF MATERIALS

3 CR. (3L)

PRQ: EGG 271. 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.

ENT 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

English

ENG 075

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ENG 113

BUSINESS ENGLISH

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces business English skills that are applicable to business correspondence. This course will review basic principles of grammar, punctuation, capitalization, spelling and word usage.

ENG 119

WRITING RESUMES AND COVER LETTERS

1 CR. (1L)

Provides an introduction to writing resumes and cover letters. Students will learn a variety of techniques for writing, presenting, formatting and organizing traditional resumes, electronic resumes and cover letters.

ENG 121

ENGLISH COMPOSITION I: GT-CO1

3 CR. (3L)

PRQ: CCR 092. Emphasizes the planning, writing and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative and persuasive/argumentative writing. This course is one of the statewide Guaranteed Transfer courses, GT-CO1.

ENG 122

ENGLISH COMPOSITION II: GT-CO2

3 CR. (3L)

PRQ: ENG 121. Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative and/or persuasive papers that incorporate research. This course is one of the statewide Guaranteed Transfer courses, GT-CO2.

ENG 131

TECHNICAL WRITING I

3 CR. (3L)

PRQ: CCR 092. 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 CR. (3L)

PRQ: Successful completion of ENG 131 with a grade of C or better. Expands and refines the objectives of ENG 131, emphasizing formal presentations, both written and oral.

ENG 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

ENG 201

COMPOSITION III: WRITING FOR PUBLIC DISCOURSE GT-CO3

3 CR. (3L)

PRQ: Successful completion of ENG 122 with a grade of C or better. Provides students with skills necessary to enter into higher-level undergraduate academic discourse or professional workplace writing. ENG 201 extends students' rhetorical knowledge and develops critical reading, thinking and writing strategies in multiple specialized areas of discourse beyond what they encounter in ENG 122. In ENG 201, students deepen their rhetorical and writing skills by learning to analyze, synthesize and summarize complex texts and incorporate this information into 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. This course is one of the statewide Guaranteed Transfer courses, GT-CO3.

ENG 221

CREATIVE WRITING I

3 CR. (3L)

PRQ: CCR 092. 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 CR. (3L)

PRQ: ENG 221. Provides continued development of written expression in such forms as poetry, fiction and/or nonfiction writing.

ENG 228

WRITING FOR THE GRAPHIC NOVEL

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces story analysis and writing concepts used in writing for the graphic novel. Students explore the graphic novel as a vehicle for a unique, personal venue for written expression. Students explore the history and universal themes of the graphic novel as well as examine the principles of composition, different writing styles and processes used in the development of the graphic novel. The application of writing skills, script development and revision processes necessary for the creation of an individual graphic work and thorough examination of course material in terms of writing style, process considerations and written themes are the primary focus. Students create outlines, scripts and a final written work for a graphic novel, focusing on unity of style and techniques for authoring appropriate to story lines.

ENG 230

CREATIVE NONFICTION

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (3L)

PRQ: Successful completion of ENG 121 with a grade of C or better or instructor approval. 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 238

WRITING THE NOVEL 1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. Learn the art and craft of writing a literary novel through intensive study of the process of developing long form narrative. Explore techniques for outlining plot, developing characters, and establishing setting. Workshops will emphasize critical review of students' own creative writing and all participants will develop and refine their critical vocabulary and methodology.

ENG 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Environmental Science

ENV 101

ENVIRONMENTAL SCIENCE WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: CCR 092. CORQ: MAT 050. 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. This course is one of the statewide Guaranteed Transfer courses, GT-SCI.

ENV 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Esthetician

Please refer to Cosmetology.

Ethnic Studies

ETH 200

INTRODUCTION TO ETHNIC STUDIES: GT-SS3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

ETH 224

INTRODUCTION TO CHICANO STUDIES

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces students to skills development in multicultural education. Covers Chicano history, migration and labor, education, law and Chicano culture.

ETH 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

****Facilities Maintenance Tech**

****FMT 101**

CUSTODIAL TECHNIQUES

4 CR. (4L)

Focuses on products and techniques of maintaining commercial or industrial buildings. Covers health standards and issues.

****FMT 102**

FACILITIES MAINTENANCE - ELECTRICITY

4 CR. (3L/1.5 LBV)

Focuses on electrical fundamentals as applied to residential and commercial facilities maintenance. Covers repair, service and maintenance of electrical systems and codes.

****FMT 111**

HOUSEKEEPING

1.5 CR. (1L/.75 LBV)

Introduces components and practices that provide the part-time custodian with the basic knowledge to effectively perform all job-related work assignments in general housekeeping.

****FMT 128**

CUSTODIAN PERSONNEL MANAGEMENT

1.5 CR. (1.5L)

Trains school custodians in basic personnel management and emphasizes leadership and team-building skills for the first-time manager.

****FMT 150**

JOB SURVIVAL SKILLS

1 CR. (1L)

Learn job survival skills that will give you a competitive edge in the workplace. This course of instruction will provide the necessary skills to obtain and keep a job in the custodial trades. Tools taught will be stepping stones for advancement on the job. Topics covered include self-esteem, ethics, responsibility, leadership equity/diversity, communication skills, time management, workplace etiquette, how to deal with the unexpected, and resumes/interviews.

****FMT 250**

CLEANING CHEMICALS

1 CR. (1L)

Using chemicals safely is the focus of this course. How to select the proper cleaning chemicals, cleaning agents and disinfectants is taught. OSHA standards are included.

Film Video Media

FVM 155

WRITING THE SHORT SCRIPT

3 CR. (3L)

Introduces short script writing where students conceptualize, write, rewrite and polish their own scripts throughout the course building a portfolio for use in student productions. The course covers several writing techniques, including the principles of construction, the role of subtext, creating dynamic characters, and the difference in theory between shorts and features.

FVM 160

VIDEO POST PRODUCTION I

3 CR. (1L/3 LBV)

Introduces the basic concepts and skills of video post-production with an emphasis on nonlinear editing. The student will demonstrate comprehension of basic editing techniques to enhance visual storytelling. The student will learn to critically analyze shot construction, motion and composition in storytelling and character development for the films and exercises they shoot in FVT/FVM 105 Video Production I.

FVM 164

DIGITAL EDITING: FINAL CUT PRO

3 CR. (1L/3 LBV)

Introduces the basic concepts and skills of non-linear editing using Final Cut Pro. The student will demonstrate comprehension in various editing techniques and apply the acquired knowledge to exercises in the class. The student will analyze other editors' works for aesthetic and technical merit and develop an understanding of industry standards and expectations. Capturing, outputting and software integration are covered.

FVM 185

DOCUMENTARY FILM

3 CR. (2L/1.5 LBV)

An overview of the subject, with an emphasis on the historical development of the documentary film. Classroom visits with local documentary filmmakers, analysis of documentary techniques, finding the story and the challenges of the medium.

FVM 200

VIDEO PRODUCTION II

3 CR. (4.5 LBV)

Engages students in more advanced productions, helping them to develop and demonstrate a mastery of the many skills necessary to make effective and successful films. Translates knowledge, methods and concepts developed in previous courses into a creative, problem-solving, learn-by-doing filmmaking experience.

FVM 205

CAMERA TECHNIQUES

3 CR. (1L/3 LBV)

The narrative importance of different camera angles, movements and focal planes are analyzed. Students will examine how video and 16mm film cameras work, and various techniques used in composition and the acquisition of images. Students will demonstrate and apply technique by shooting specific exercises both in and out of class.

FVM 206

FILM/VIDEO LIGHTING

3 CR. (1L/3 LBV)

Lighting design and aesthetics in interior, exterior, location and studio settings. Students will examine and analyze photographic and motion picture lighting and plan, design and implement their re-creation. Students will then demonstrate and apply technique by shooting specific exercises both in and out of class.

FVM 208

SOUND FOR FILM/VIDEO

3 CR. (1L/3 LBV)

This introduction to sound for film and video provides instruction on acquisition of audio on location and post-production methods. Students will apply the techniques and tools discussed in class to practical exercises and group environments. Students will analyze sound information to prepare projects for the post-production process and learn to synthesize the acquired results with the visual elements of the story to enhance the emotional impact of a piece. Students will be introduced to sweetening techniques, musical compositions and Foley.

FVM 209

PRODUCTION MANAGEMENT

3 CR. (1L/3 LBV)

This course teaches students how to plan, schedule and budget for a feature length film or television pilot using scheduling and budgeting software. Students will use critical thinking to arrange and divide the script and learn how to predict, calculate and estimate for insurance requirements, unions and guilds, and basic accounting to complete a professional industry budget and schedule ready for production.

FVM 215

POST PRODUCTION II

3 CR. (4.5 LBV)

PRQ: FVM 164

Instructs students in editing techniques using footage shot in FVT 200 Production II and from assigned footage. Students will explore various exercises to learn control and comprehension of digital editing and storytelling and to apply these techniques to the completion of a final edit for Production II. Students will continue to use and gain mastery over nonlinear editing systems, including an introduction to audio post production, music creation and placement and color correction. Students will learn to evaluate footage and edit pieces with strong character development and strong narrative structure.

FVM 275

SPECIAL TOPICS

0-12 CR.

Offers a variety of courses, such as understanding the actor's process, intro to digital FX for post, acting scene to screen, etc.

Fire Science Technology

FST 100

FIREFIGHTER I

9 CR. (6L/4.5 LBV)

Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard using IFSTA Essentials.

FST 101

FIREFIGHTER II

3 CR. (2L/1.5 LBV)

PRQ: FST 100. Addresses the requirements necessary to perform at the second 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 II, standard.

FST 102

PRINCIPLES/EMERGENCY SERVICES

3 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 & COMBUSTION

3 CR. (3L)

Explores the theories and fundamentals of how and why fires start, spread and are controlled.

FST 105

BUILDING CONSTRUCTION FOR FIRE PROTECTION

3 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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

3 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 AND ASSESSMENT

3 CR. (2L/1.5 LBV)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 121

TECHNICAL ROPE RESCUE

4 CR. (1L/4.5 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Provides students with the knowledge and skills to handle low and high angle rescues using rescue rope and associated hardware. The course takes students from the introductory level up to advanced skills in three separate sessions. Belay, rappel and raising systems are taught in a real-life setting in both high- and low-angle rescue environments. Students are also taught care and maintenance of equipment.

FST 126

VEHICLE EXTRICATION AWARENESS LEVEL

1 CR. (1.5 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Provides the student with entry level knowledge and skills to safely operate at the scene of a vehicle/machinery extrication. Training in this course represents the minimum level of training needed to respond to a vehicle extrication incident.

FST 127

VEHICLE EXTRICATION OPERATIONS LEVEL

2 CR. (.5L/2.25 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Expands and refines the objectives of FST 126. Students shall be capable of hazard recognition, equipment use and techniques necessary to operate safely and effectively at incidents involving persons injured or entrapped in a vehicle or machinery.

FST 128

VEHICLE EXTRICATION TECHNICIAN LEVEL

3 CR. (1L/3 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Expands and refines the objectives learned in FST 127. Training in this course represents the highest level of operation at the rescue scene involving vehicle extrication. Students shall be capable of hazard recognition, equipment use and techniques necessary to operate and effectively supervise at incidents involving persons injured or entrapped in a vehicle or machinery.

FST 132

STRUCTURAL COLLAPSE

2 CR. (.5L/2.25 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Covers the various types of construction, causes for structural collapse, types of structural collapse, and identification of structural component failures. Mitigation of a structural collapse response and other associated hazards through use of ICS, proper size-up, building failure analysis, monitoring techniques, shoring systems and associated equipment, proper search and recovery techniques, and personal protective equipment requirements.

FST 133

TRENCH RESCUE

2 CR. (.5L/2.25 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Covers trench types; trench versus excavation rescues; soil types encountered at trench rescue sites; collapse dynamics; ICS/IMS; equipment, materials and tools used for rescue operations; personal protection issues; trench shoring; and victim extrication.

FST 134

CONFINED SPACE RESCUE

2 CR. (.5L/2.25 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Covers the definition of confined space; OSHA considerations and permit requirements; monitoring instruments; ICS/IMS; victim contact; breathing apparatus such as SABA/SCBA; communications and equipment, e.g., radio/hardwired; patient packaging; rescue versus recovery; and patient extrication.

FST 135

ICE WATER RESCUE

2 CR. (.5L/2.25 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Covers types of ice encountered in ice water rescue; ICS/IMS; ice strength; patient evaluation and contact; rescue equipment; ice water rescue techniques; rescue suit safety; belay line and shore support; hypothermia; Zodiac boat techniques; and victim rescue.

FST 136

SWIFT WATER RESCUE

2 CR. (.5L/2.25 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Covers fast water hazards and risk analysis relating to swift water rescue; low head dam; ICS/IMS; victims in vehicles; rescue equipment and techniques; rope systems and throw bags; reach/throw/go; rescuer safety and shore support; and personal protective equipment.

FST 150

INTRODUCTION TO FIRE PREVENTION EDUCATION

3 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 CR. (2L/1.5 LBV)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 CR. (1L/3 LBV)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

FST 201

INSTRUCTIONAL METHODOLOGY

3 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 AND TACTICS

3 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. Provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems.

FST 204

PRINCIPLES OF CODE ENFORCEMENT

3 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. Provides the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes.

FST 206

FIRE CO SUPERV AND LEADERSHIP

3 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 AND TACTICS II

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 208

FIRE PLANS REVIEW AND ACCEPTANCE TESTING

2 CR. (2L)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Instructs the student on how to review building plans submitted to a fire department, acceptance testing procedures, implementation of a fire inspection program, and how to deal effectively with the public for fire prevention and education activities.

FST 209

FIRE PROTECTION SYSTEMS

3 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 CR. (3L)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. 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 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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

NIMS

3 CR. (3L)

PRQ: FST 202. CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 CR. (3L)

PRQ: FST 107. CORQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (3L)

CORQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. 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 CR. (3L)

PRQ: FST 206. CORQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Fire Science Wildland

FSW 100

S-190 INTRODUCTION TO WILDLAND FIRE BEHAVIOR

1 CR. (1L)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Provides instruction in the primary environmental factors that affect the start and spread of wildfire and recognition of potentially hazardous situations. This course can be taught in conjunction with or prior to Firefighting Training S-130.

FSW 101

S-130 FIREFIGHTING TRAINING

2 CR. (.5L/2.25 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Provides entry-level firefighter skills. A version of the L-180, Human Factors on the Fire line, is included as part of the course. Credit should be issued for S-130.

FSW 102

S-131 FIREFIGHTER TYPE I

0.5 CR. (.5L)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Designed to meet the training needs of the Firefighter Type 1. 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 fire line reference materials, communications and tactical decision making.

FSW 103

D-110 DISPATCH RECORDER WITH INTRODUCTION TO ROSS

1 CR. (1L)

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

0.25 CR. (.25L)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. 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 LANE

0.25 CR. (0.5L)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. 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 143

S-212 WILDFIRE CHAIN SAWS

2 CR. (1L/1.5 LBV)

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 provide hands-on cutting in surroundings similar to fire line situations.

FSW 153

S-290 INTERMEDIATE WILDLAND FIRE BEHAVIOR

2 CR. (2L)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Designed to prepare the prospective supervisor to undertake safe and effective fire management operations.

FSW 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

FSW 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

****Floral Design**

FLD 100

INTRODUCTORY FLORAL DESIGN

3 CR. 2L/1.5 LBV)

Teaches students working in the floral design industry a working knowledge of retail flower shop management and procedures. Introduces students to the basic principles and elements of floral design that can be used for personal or professional industry applications. Students also learn basic care and identification of fresh flowers, design, purchasing and pricing of various types of floral compositions.

French

FRE 111

FRENCH LANGUAGE I

5 CR. (5L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (5L)

PRQ: FRE 111. Successful completion of FRE 111 or department chair approval. 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: GT-AH4

3 CR. (3L)

PRQ: FRE 112. Continues French I and II in the development of increased functional proficiency in listening, speaking, reading and writing the French language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of statewide Guaranteed Transfer courses, GT-AH4.

FRE 212

FRENCH LANGUAGE IV: GT-AH4

3 CR. (3L)

PRQ: FRE 211. Continues French I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the French language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of statewide Guaranteed Transfer courses, GT-AH4.

FRE 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Geography

GEO 105

WORLD REGIONAL GEOGRAPHY: GT-SS2

3 CR. (3L)

PRQ: CCR 092. 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS2.

GEO 106

HUMAN GEOGRAPHY: GT-SS2

3 CR. (3L)

PRQ: CCR 092. 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS2.

GEO 111

PHYSICAL GEOGRAPHY: LANDFORMS WITH LAB: GT-SCI

4 CR. (3L/2 LBA))

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

GEO 112

PHYSICAL GEOGRAPHY: WEATHER AND CLIMATE WITH LAB: GT-SCI

4 CR. (3L/2 LBA))

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces the principles of meteorology, climatology, world vegetation patterns and world regional climate classification. The course includes investigating the geographic factors which influence climate, such as topography, location, elevation, winds and latitude.

GEO 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

GEO 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Geography Information Systems

GIS 101

INTRODUCTION TO GIS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Surveys the development, application and use of geographic information systems (GIS).

GIS 105

ARCVIEW GIS

3 CR. (3L)

PRQ: GIS 101 or department chair approval. Introduces the fundamentals of GIS including cartographic principles, hardware, and software requirements, raster, and vector data structures, and data sources, accuracy, and acquisition, spatial data databases and spatial analysis. Hands-on experience with vector data utilizing ArcView software includes use of map scales, coordinate systems, determining spatial relationships, map features and attributes, map overlays, and basic operations with databases. Student will learn to create charts and graphs and full map layouts. A final project is required.

GIS 110

INTRODUCTION TO CARTOGRAPHY FOR GIS

3 CR. (3L)

PRQ: GIS 105 or department chair approval. 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 CR. (3L)

PRQ: GIS 110 or department chair approval. 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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

GIS 212

GIS REMOTE SENSING

4 CR. (4L)

PRQ: GIS 131 or department chair approval. 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 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Geology

GEY 111

PHYSICAL GEOLOGY WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: CCR 092. CORQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

GEY 112

HISTORICAL GEOLOGY: GT-SC1

4 CR. (3L/2 LBA)

PRQ: CCOR 092. CORQ: 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 lifeforms, and physical events, all within the framework of shifting crustal plates. Course includes laboratory experience. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

GEY 135

ENVIRONMENTAL GEOLOGY WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of MAT 050 or MAT 055 with a grade of S/C or better. 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. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

GEY 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

GEY 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

German

GER 101

CONVERSATIONAL GERMAN I

3 CR. (3L)

Introduces beginning students to conversational German and focuses on understanding and speaking German. Covers basic vocabulary, grammar and expressions that are used in daily situations and in travel.

GER 111

GERMAN LANGUAGE I

5 CR. (5L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (5L)

PRQ: Successful completion of GER 111 or department chair approval. 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: GT-AH4

3 CR. (3L)

PRQ: Successful completion of GER 112 or department chair approval. Continues German Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the German language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of statewide Guaranteed Transfer courses, GT-AH4.

GER 212

GERMAN LANGUAGE IV: GT-AH4

3 CR. (3L)

PRQ: Successful completion of GER 211 or department chair approval. Continues German Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the German language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of statewide Guaranteed Transfer courses, GT-AH4.

GER 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Health Information Technology

HIT 101

HEALTH INFORMATION MANAGEMENT SCIENCE

3 CR. (3L)

PRQ: HPR 178 or department chair approval. Introduces the student to the health record, from inception to completion. Emphasis is on content and regulations impacting the health record in the various settings. Other areas to be discussed include the electronic health record and responsibilities of the health information department. This course also examines various health care delivery systems and healthcare practitioners. Professional and practice-related ethical issues are discussed, as well as evaluating the consequences of a breach of healthcare ethics.

HIT 102

MEDICAL VOCABULARY FOR DOCUMENTATION

3 CR. (3L)

PRQ: HPR 178, CIS 110, CCR 092. Introduces medical vocabulary through the study of word structures and phrases with reinforcement in writing narratives and the study of medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis on learning to read, pronounce and interpret medical documentation prepares the student for document review in HIT fields. Illustrates the importance of HIPAA in both physical and electronic dissemination of medical records.

HIT 105

PRINCIPLES OF HEALTHCARE REIMBURSEMENT

3 CR. (3L)

PRQ: BIO 106, CIS 118, HPR 178, HIT 252, or department chair approval. Provides students with the knowledge needed to perform necessary tasks involved in healthcare reimbursement systems, including payment methodologies, use of clinical data and compliance.

HIT 111

HEALTH DATA MANAGEMENT AND INFORMATION SYSTEMS

3 CR. (3L)

PRQ: HPR 178 or department chair approval. Introduces the electronic health record (EHR)/components and health informatics including infrastructure, privacy, security and legal implications. Federal involvement and its impact on information technology regarding health data will be discussed. Students will study the roles and relationships, in the transformation of data into meaningful information, through research, vital statistics and epidemiology. Data quality, integrity, collection, access and retention will also be emphasized.

HIT 112

LEGAL ASPECTS FOR HEALTH RECORDS

2 CR. (2L)

Introduces the student to the legal system and defines the role of the healthcare professionals. Specific federal and state laws are identified and discussed as they relate to release of medical information.

HIT 120

WORKING WITH HEALTH IT SYSTEMS

4 CR. (4L)

PRQ: CIS 118, HPR 178, or department chair approval. Provides hands-on experience with a computerized HIT system/electronic health record, utilizing contemporary online systems with simulated data. The course will include additional lecture, project work and practice in the use of HIT systems. Students will play the role of practitioners using these systems and experience threats to security and gain an appreciation of the need for standards and high levels of usability. Students will also learn how errors can occur and ways to minimize them.

HIT 121

NETWORKING AND HEALTH INFO

2.5 CR. (2.5L)

PRQ: Department chair approval. In-depth analysis of data mobility, including the hardware infrastructure (wires, wireless and devices supporting them), the ISO stack, standards, Internet protocols, federations and grids. The Nationwide Health Information Network and other nationwide approaches to distribution of electronic health records by health information exchanges will also be explored. Also covered are the functional models and certification of the Electronic Health Record and Data Standards for these records.

HIT 122

WORKFLOW FUND OF HEALTHCARE

3 CR. (3L)

PRQ: CIS 118, HPR 178, or department chair approval. Introduces the fundamentals of healthcare workflow, process analysis and redesign in various healthcare settings. Health information technology culture changes (IT/clinicians) and project management, including HIT system selection, design, implementation and support will also be covered. Electronic health record/practice management systems will be evaluated for quality and process improvement, clinical decision support, health information exchange, public health, and population health management in ambulatory and alternative care settings.

HIT 123

CONFIGURING EHRS

3 CR. (3L)

PDQ: CIS 118, HPR 178, CSC 119, or department chair approval. A practical experience with a laboratory component, addressing approaches to assessing, selecting and configuring EHRs to meet the specific needs of customers and end-users.

HIT 124

PUBLIC HEALTH IT

1 CR. (1L)

PRQ: Department chair approval. Prepare students for working with public health agencies, an overview of specialized public health applications such as registries, epidemiological databases, bio surveillance and situational awareness and emergency response. Includes information exchange issues specific to public health.

HIT 150

HEALTHCARE DELIVERY SYSTEMS

3 CR. (3L)

PRQ: HPR 178 or department chair approval. Provides an overview of the healthcare delivery system at the national, state and local level. The course provides healthcare education, including applicable regulations and standards, reimbursement methods, and evolution and current trends in healthcare delivery.

HIT 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HIT 188

HEALTH INFORMATION PRACTICUM I

2 CR. (4 PRC)

PRQ: HIT 252 or department chair approval. Provides a directed clinical experience which focuses on the practice of skills related to the application of legal principles, record analysis and abstraction and record retention and retrieval.

HIT 220

ICD CODING I

3 CR. (3L)

PRQ: BIO 106, CIS 118, HPR 178, HPR 232, or department chair approval. CORQ: HPR 232. Introduces the ICD coding classification system and provides a basic understanding of ICD structure, conventions and principles utilized in code assignment. The student will be introduced to the official coding guidelines. They will apply knowledge of anatomy, physiology, pathophysiology and pharmacology in the assignment of diagnostic and procedural codes.

HIT 222

QUALITY MANAGEMENT

3 CR. (3L)

Introduces the student to the basic concepts of quality management in the healthcare environment. Requirements by regulatory agencies regarding quality documentation, utilization and risk management are discussed. Data collection, verification, analysis, descriptive statistics and presentation techniques will be studied. The course emphasizes the ongoing use of objective data and feedback to improve processes, systems and patient outcomes. Analysis of documentation for various purposes is also covered.

HIT 225

HEALTH INFORMATION MANAGEMENT

3 CR. (3L)

Concentrates on the principles of management as they relate to the administration of the health information management department as part of a healthcare organization.

HIT 232

DISEASE PROCESS AND TREATMENT

5 CR. (5L)

Covers disease processes and drug therapy used to treat commonly found pathological conditions. Normal anatomy and physiology of each body system is reviewed. Conditions that disrupt homeostasis are examined. Conditions considered are both acquired and congenital. Diagnostic methods, management, treatment modalities and prognosis are discussed. Classifications of drugs are introduced. A general understanding of the actions; absorption, metabolism and excretion; and reasons for use of various groups of pharmacologic agents are introduced.

HIT 241

CPT CODING BASIC PRINCIPLES

3 CR. (3L)

PRQ: BIO 106, CIS 118, HPR 178, HPR 232, or department chair approval. CORQ: HPR 232. Provides the student with skill sets to apply the current procedural terminology (CPT) and HCPCS code set principles and guidelines for application in reporting/communicating information and data about clinical services provided to patients by healthcare providers. Includes understanding what the CPT nomenclature is, how and why it is used, and guidelines for each code category and how it is applied to represent services within each code category.

HIT 252

CODING II FOR CERTIFICATION

3 CR. (3L)

PRQ: BIO 106, CIS 118, HPR 178, HIT 220, HIT 241, HPR 232, or department chair approval. Covers medical necessity and coding issues using ICD and CPT coding principles. Students should already possess a fundamental understanding of the CPT, ICD and HCPCS coding principle. Intensive coding application will be achieved through the use of medical records, case studies and scenarios. DRGs, APCs, RUGs, RBRVs and the Correct Coding Initiative (CCI) will also be covered in this class.

HIT 261

HEALTHCARE SOFTWARE

3 CR. (3L)

PRQ: CIS 118, HPR 178, or department chair approval. This course covers basic computer system architecture, file structure and design for healthcare settings. Topics include system analysis, design, security and selection for a variety of hardware environments. This course provides students with a review of computer fundamentals and the fundamentals of the electronic health record and an introduction to the information systems life cycle with software application. Security and confidentiality issues, concerns and implications in relation to the electronic health record will be addressed.

HIT 268

CERTIFICATION TEST PREPARATION

1 CR. (1L)

PRQ: Department chair approval. Prepares students who have made the decision to obtain a national health information technology credential by completing national credentialing exams.

HIT 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HIT 288

HEALTH INFO PRACTICUM II

2 CR. (6 INT)

Focuses on the ability of the student to apply classroom knowledge in a clinical setting, practice professionalism, gain insight into the functions of the department and understand the relationship of health records to the facility as a whole. Emphasis is on the ability to act independently, complete assigned projects and demonstrate a good understanding of health information management concepts.

Health & Wellness

HWE 100

HUMAN NUTRITION

3 CR. (3L)

PRQ: CCR 092, MAT 050. Introduces basic principles of nutrition with emphasis on personal nutrition. Satisfies nutrition requirement of students entering healthcare professions.

HWE 103

COMMUNITY FIRST AID AND CPR

1 CR. (1L)

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. S/U

HWE 108

WEIGHT LOSS

1 CR. (1.5 LBV)

Focuses on combining a healthy diet and exercise to shed unwanted pounds and inches. The course will include classroom sessions that will focus on personal habits including diet that lead to weight gain and exercise session in the Fitness Center.

HWE 111

HEALTH AND FITNESS

3 CR. (3L)

PRQ: CCR 092 or higher. Studies health and fitness in the US today. The course will look at personal health issues, managing stress, nutrition and health lifestyles.

HWE 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HWE 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Health Professional

HPR 100

INTRODUCTION TO HEALTH

3 CR. (3L)

Provides an exploratory course for students interested in a health career. Basic health skills such as vital signs and CPR will be included.

HPR 102

CPR FOR PROFESSIONALS: PROFESSIONAL RESCUER

.5 CR. (.5L)

Meets the requirement for American Red Cross Professional Rescuer CPR or American Heart Association Basic Life Support for those who work in emergency services, healthcare 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 106

LAW & ETHICS FOR HEALTH PROFESSIONS

2 CR. (2L)

Introduces student to the study and application medico-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions.

HPR 108

DIETARY NUTRITION

1 CR. (1L)

PRQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. Studies the basic nutritional principles in clinical practice in health care. The course will cover factors which influence the nutritional status of individuals, methods of nutritional assessment and support, and diet modification for specific disease states.

HPR 112

PHLEBOTOMY

4 CR. (2L/3 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. 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 CR. (2.5L/2.25 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Focuses on advanced phlebotomy skills including laboratory protocols, specimen processing and point of care documentation. This course provides opportunities for the student to master learned skills.

HPR 116

COMPUTERS IN HEALTHCARE

1 CR. (1L)

PRQ: Successfully completion of CCR or qualifying placement score or exemption. Introduces the learner to use of personal computer technology and the concepts of software applicable to health care. Basic features of selected software, terminology related to hardware, software and online resources (which include PC, word processing, email) and electronic health-based research will be emphasized. Provides opportunities for practical applications of computer skills to nursing care.

HPR 117

ANATOMICAL KINESIOLOGY

3 CR. (1L/3 LBV)

PRQ: HPR 178, PTA department chair approval. Studies the Anatomical Bases of Human Movement.

HPR 120

ACLS

1 CR. (1L)

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. S/U

HPR 121

ACLS RECERTIFICATION

.5 CR. (.5L)

Presents the required material for ACLS recertification. It will cover rhythm recognition, cardiac drugs, cardiac monitors, and case-based scenarios. S/U

HPR 122

ACLS INSTRUCTOR COURSE

.5 CR. (.5L)

Presents information on how to obtain a complete health history, assessment skills of inspection, palpation, percussion, and auscultation are practiced in class. S/U

HPR 130

PEDIATRIC ADVANCED LIFE SUPPORT

1 CR. (1L)

Provides students the needed information and skills as required by health care agencies for pediatric emergencies. S/U

HPR 131

PEDIATRIC ADVANCED LIFE SUPPORT RENEWAL

.5 CR. (.5L)

Provides students with updates and skill practice to complete renewal requirements for PALS completion card. S/U

HPR 132

PEDIATRIC ADVANCED LIFE SUPPORT INSTRUCTOR

1 CR. (1L)

Provides the current PALS provider the information and practice needed to instruct PALS initial and renewal courses. S/U

HPR 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HPR 178

MEDICAL TERMINOLOGY

1-4 CR. (1-4L)

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 and 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 180

INTERNSHIP

3 CR. (9 INT)

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

HPR 190

BASIC EKG INTERPRETATION

2 CR. (2L)

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. S/U

HPR 200

ADVANCED ECG INTERPRETATIONS

3 CR. (3L)

Focuses on each wave and interval of the complex, the axis, and the 12-lead presentation of some rhythm disturbances. S/U

HPR 208

MEDICAL RECORD TERMINOLOGY

2 CR. (2L)

PRQ: HPR 178. Demonstrates knowledge of medical terminology with emphasis on combining complex prefixes, roots and suffixes. Course includes pathophysiology for major body systems. Course includes terms related to diagnostic tools per body systems, as well as commonly used medical abbreviations. Course applies medical terminology knowledge in interpreting the medical record.

HPR 232

DISEASE PROCESS AND TREATMENT

5 CR. (5L)

PRQ: BIO 106, CIS 118, HPR 178, or department chair approval. Covers disease processes and drug therapy used to treat commonly found pathological conditions. Normal anatomy and physiology of each body system is reviewed. Conditions that disrupt homeostasis are examined. Conditions considered are both acquired and congenital. Diagnostic methods, management, treatment modalities and prognosis are discussed. Classifications of drugs are introduced. A general understanding of the actions; absorption, metabolism and excretion; and reasons for use of various groups of pharmacologic agents are introduced.

HPR 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Heavy Equipment

HEQ 150

BASIC PRINCIPLES OF ENGINE OPERATION AND DRIVE TRAIN

2 CR. (1L/1.5 LBV)

Covers the theory of operation and the maintenance of engines, drive trains and related power equipment used in heavy equipment operations.

HEQ 220

MOTOR GRADER I

2 CR. (1L/1.5 LBV)

Covers the safe operation of a motor grader and perform a variety of operations using the grader.

HEQ 221

MOTOR GRADER II

2 CR. (1L/1.5 LBV)

Focuses on the safe operation of a motor grader and aggregate road maintenance and building.

HEQ 225

BACKHOE I

2 CR. (1L/1.5 LBV)

Designed for operators with little or no experience in operating a backhoe. Covers performing pre-trip inspection, greasing and lubing equipment, nomenclature, and identifying and understanding all controls. Includes use of front-end loader to load dirt, using backhoe attachment to dig trenches of specific depth and length, replacing a cutting edge, and OSHA and industry standards of open excavations.

HEQ 226

BACKHOE II

2 CR. (1L/1.5 LBV)

Covers coordinating locates, preparing sub-base, digging on uneven surfaces, backfilling trenches, loading trucks with backhoe, digging trenches to grade, use of a transit and handheld level, crossing trenches, setting up on open excavations, benching techniques, and OSHA and industry safety standards.

HEQ 230

HYDRAULIC EXCAVATOR

2 CR. (1L/1.5 LBV)

Covers the safe operation of the hydraulic excavator. Allows the student to perform a variety of operations with the excavator.

HEQ 240

BASIC BULLDOZER I

2 CR. (1L/1.5 LBV)

Teaches performing walk-around inspections, using proper terms and definitions associated with the bulldozer, and using proper safety procedures. Includes performing rough ditching and spreading, performing ripping operations, cutting and building a gentle slope bench, using the bulldozer on unstable soil, and replacing cutting edges on blades and teeth on rippers.

**HEQ 241

BULLDOZER II

2 CR. (1L/1.5 LBV)

Teaches how to perform excavation in confined space, construct an elevated roadway, perform finish work, move large obstacles, perform bulldozing operations on a slope. Includes identifying and repairing drainage problems, stockpiling materials, use of a transit or hand level to create a 3:1 slope, and OSHA, MSHA and industry safety standards.

HEQ 246

FRONT END LOADER II

2 CR. (1L/1.5 LBV)

Enables the student to learn the safe operation of a front-end loader and perform a variety of tasks. Build on skills such as excavating, stockpiling and backfilling with different types of attachments.

HEQ 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Heavy Equipment Mechanics

HEM 211

FINAL DRIVES AND BRAKES

2 CR. (1L/1.5 LBV)

Focuses on the study of single and double final drives and brake systems on both light and heavy-duty equipment. Covers diagnostics, service and repair techniques.

HEM 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

History

HIS 101

WESTERN CIVILIZATION: ANTIQUITY-1650: GT-HI1

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-HI1.

HIS 102

WESTERN CIV: 1650-PRESENT:GT-HI1

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-HI1.

HIS 111

THE WORLD: ANTIQUITY-1500: GT-HI1

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-HI1.

HIS 112

THE WORLD: 1500-PRESENT: GT-HI1

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-HI1.

HIS 121

U.S. HISTORY TO RECONSTRUCTION: GT-HI1

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-HI1

HIS 122

U.S. HISTORY SINCE THE CIVIL WAR: GT-HI1

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-HI1.

HIS 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HIS 216

HISTORY AND HOLLYWOOD: FILM AND HISTORICAL PERSPECTIVE IN MODERN AMERICA

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Examines the role in film in informing the historical perspective of modern Americans. Focuses on the status of film as historical document and the methods and sources employed to critique historical films effectively.

HIS 225

COLORADO HISTORY: GT-HI1

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-HI1.

HIS 244

HISTORY OF LATIN AMERICA: GT-HI1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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. This course is one of the statewide Guaranteed Transfer courses, GT-HI1.

HIS 246

HISTORY OF MEXICO

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Focuses on the major political, economic, social and cultural developments of Mexico from Pre-Columbian times to the present. This course is one of the statewide Guaranteed Transfer courses, GT-HI1.

HIS 247

20TH CENTURY WORLD HISTORY: GT-HI1

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-HI1.

HIS 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Horticulture

HLT 100

HORTICULTURE SCIENCE

4 CR. (3L/1.5 LBV)

Introduces students to the principles of the plant science as they relate to horticulture. The course emphasizes the application of plant sciences to the propagation, improvement, culture and utilization of horticultural plants.

HLT 101

INTRODUCTION TO HORTICULTURE

4 CR. (4L)

Introduces the biology of horticultural plants and basic horticultural practices. (60 contact hours)

**HLT 160

GREENHOUSE MANAGEMENT

4 CR. (3L/1.5 LBV)

Covers greenhouse design, systems, management and the major greenhouse crops and their cultural needs.

HLT 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

**HLT 208

PESTICIDE SAFETY AND USE

2 CR. (1L/1.5 LBV)

Familiarizes students with the safe handling of pesticides used in horticulture and the laws and regulations that govern all facets of pesticide use in Colorado. Can be used as preparation for completing the Colorado Department of Agriculture's pesticide licensure exams.

**HLT 221

WOODY LANDSCAPE PLANTS I

3 CR. (1L/3 LBV)

Discusses the identification (common and botanical names), landscape usage and culture of regionally adapted plants. This course discusses deciduous shade and ornamental trees and conifers (evergreen trees and shrubs).

**HLT 222

WOODY LANDSCAPE PLANTS II

3 CR. (1L/3 LBV)

Discusses the identification (common and botanical names), landscape usage and culture of regionally adapted plants. This course discusses deciduous and evergreen broadleaf shrubs and vines.

**HLT 223

ANNUALS, BULBS, AND GRASSES

2 CR. (1L/1.5 LBV)

Discusses the identification (common and botanical names), landscape usage and culture of annuals, bulbs and perennial and annual grasses common to Colorado landscapes.

HLT 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Hospitality Studies

HOS 105

INTRODUCTION TO MANAGEMENT IN THE HOSPITALITY INDUSTRY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Describes the history, development and operation of the hospitality industry, including careers in the industry, management practices, accounting procedures, destinations and lodging.

**HOS 110

INTRODUCTION TO HOSPITALITY

3 CR. (3L)

Introduces learners to careers and the organization and structure of the hospitality industry, including hotels, restaurants, noncommercial food service, travel and tourism, conventions and meetings, clubs and other food service entities. Topics include exploring career opportunities, understanding the world of hotels and restaurants, food service organizational structures, an introduction to the meetings industry, and analyzing the size and scope of the noncommercial foods segment.

HOS 122

TRAVEL DESTINATIONS IN THE WESTERN HEMISPHERE

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces geography concepts such as time zones, weather patterns, map skills and geology to the students. This in-depth study of the western hemisphere, including North and South America and the Caribbean, will be considered from the perspective of the hospitality professional.

HOS 123

TRAVEL DESTINATIONS IN THE EASTERN HEMISPHERE

3 CR. (3L)

Continues HOS 122, Tourism Geography I, and will complete the examination of the world. The eastern hemisphere, including Europe, Asia, the Middle East, Africa, Australia and Oceania will be studied from the perspective of the hospitality professional.

HOS 131

PLANNING FOR SPECIAL EVENTS

3 CR. (3L)

Provides a basic knowledge of the planning and development of an event or meeting, including the budgeting, arranging of entertainment and catering, and the lodging of participants.

HOS 141

CONVENTION MANAGEMENT

3 CR. (3L)

Prepares students for a management position in the convention industry. The course defines the scope and segmentation of the convention and group business market, describes marketing and sales strategies to attract markets with specific needs, and explains techniques to meet those needs as part of meeting and convention service. The class meets for a total of 45 hours. At the conclusion of the course, students will take a nationally recognized test from the Educational Institute of the American Hotel and Lodging Association.

HOS 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HOS 207

TOUR MANAGEMENT

3 CR. (3L)

PRQ: SS 70+ or successful completion of CCR 092. Develops a basic understanding of the role and function of a tour conductor.

HOS 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Humanities

HUM 103

INTRODUCTION TO FILM ART: GT-AH2

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Studies the relationships among film's stylistic systems, narrative systems and audience reception. Students view, discuss and critically analyze a variety of films which represent a variety of genres and themes. The course incorporates the vocabulary of stylistic systems (for instance, cinematography and editing) and narrative systems (for instance, story structure and character motivation) as both relate to the kinds of meanings a film conveys. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

HUM 115

WORLD MYTHOLOGY: GT-AH2

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

HUM 121

HUMANITIES: EARLY CIVILIZATION: GT-AH2

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CE. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

HUM 122

HUMANITIES: MEDIEVAL - MODERN: GT- AH2

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CE to 1750 CE. Any two of the three Survey of Humanities courses equal a sequence. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

HUM 123

HUMANITIES: MODERN WORLD: GT- AH2

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Examines the cultures of the 17th through the 20th centuries by focusing on the interrelationships of the arts, ideas and history. Considers the influences of industrialism, scientific development and non-European peoples. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

HUM 131

THE ARTS AND CULTURES OF MEXICO

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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-20th century.

HUM 164

AMERICAN CINEMA

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HUM 211

CULTURAL DIVERSITY IN THE HUMANITIES

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces students to the various aspects of social and cultural diversity. Promotes development of critical thought and growth of multicultural, multisocial and multilingual understanding.

HUM 236

NORTH AMERICAN INDIAN ARTS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 US

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 266

DOCUMENTARY FILM: FROM TRADITIONAL TO EXPERIMENTAL

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Explores documentary film as art form, cultural artifact and rhetorical strategy.

HUM 275-276

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

****Industrial Maintenance Technology**

**IMA 120

PUMP, SEALS, ROTATING EQUIPMENT

3 CR. (2L/1.5 LBV)

Explains the theory and operation of various types of pumps and compressors in common use in the process and energy supply industries. Mechanical power transmission systems, including direct coupling and v-belt drives, are studied. The principles involved in the operation of centrifugal and positive displacement pumps and compressors will be discussed, along with the function of various components in pumps and compressors, disassembly and reassembly of pumps, compressors and mechanical drives, and troubleshooting pumps and compressors.

**IMA 160

BASIC FLUID POWER

3 CR. (2L/1.5 LBV)

Provide an understanding of the fundamentals of fluid power, hydraulic transmission of force and energy, operation at the suction side of the pump, petroleum based hydraulic fluids, fire resistant hydraulic fluids, flow rates and velocity, properties of hydraulic fluids, and the function and construction of basic elements of a hydraulic or fluid power system. The course will cover hydraulic symbols and prints used in industry.

Italian

ITA 101

CONVERSATIONAL ITALIAN I

3 CR. (3L)

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 111

ITALIAN LANGUAGE I

5 CR. (5L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (5L)

PRQ: Successful completion of ITA 111 or department chair approval. 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: GT-AH4

3 CR. (3L)

PRQ: Successful completion of ITA 112 or department chair approval. Continues Italian Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Italian language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of statewide Guaranteed Transfer courses, GT-AH4.

ITA 212

ITALIAN LANGUAGE IV: GT-AH4

3 CR. (3L)

PRQ: Successful completion of ITA 211 or department chair approval. Continues Italian Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the Italian language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of statewide Guaranteed Transfer courses, GT-AH4.

ITA 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Jewelry Repair and Design

JRD 102

BEGINNING STONE SETTING I

3 CR. (6 STA)

PRQ: Successful completion of ART 133 or department chair approval. Introduces basic stone-setting procedures and techniques.

JRD 111

JEWELRY SHOP I

3 CR. (6 STA)

PRQ: Successful completion of ART 133 or department chair approval. Introduces the student to hand fabrication techniques used in a jewelry and metalsmithing shop.

JRD 112

JEWELRY SHOP II

3 CR. (6 STA)

PRQ: Successful completion of ART 133 or department chair approval. Investigates advanced approaches in jewelry techniques, emphasizing the merging of hand-fabricated forms with casting in jewelry shop work.

JRD 215

JEWELRY DESIGN I

3 CR. (6 STA)

PRQ: Successful completion of ART 133 or department chair approval. Introduces custom jewelry design procedures and techniques.

JRD 216

JEWELRY DESIGN II

3 CR. (6 STA)

PRQ: Successful completion of ART 133 or department chair approval. Emphasizes advanced jewelry design techniques and practices as they relate to artistic and custom projects.

JRD 218

JEWELRY PRESENTATION AND PHOTOGRAPHY

2 CR. (2L)

PRQ: Department chair approval. Focuses on basic presentation techniques, display design and photography procedures for jewelry work.

JRD 221

JEWELRY PORTFOLIO

1 CR. (1L)

PRQ: Department chair approval. Emphasizes the jewelry portfolio from the design concept and layout to the finished product.

JRD 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

JRD 280

INTERNSHIP

3 CR. (9 INT)

PRQ: Department chair approval. Places the jewelry student in a repair shop for actual repair experience.

Journalism

JOU 105

INTRODUCTION TO MASS MEDIA: GT SS3

3 CR. (3L)

Places the mass media in a historical and cultural perspective, considering the validity, integrity and influence of the media in a democracy. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

JOU 106

MEDIA NEWS AND REPORTING

3 CR. (3L)

Introduces newswriting, reporting and interviewing with an emphasis on clarity, accuracy, completeness, timeliness and fairness.

JOU 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

JOU 206

INTERMEDIATE NEWSWRITING AND EDITING

3 CR. (4.5 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Law Enforcement Academy

LEA 101

BASIC POLICE ACADEMY I

6 CR. (6L)

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 CR. (12L)

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 CR. (.5 L/2.25 LBV)

Enhances the standards established by the POST 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 POST curriculum to create a unique learning experience.

LEA 105

BASIC LAW

8 CR. (8L)

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 CR. (1L/3 LBV)

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 CR. (1L/3 LBV)

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 CR. (1L/3 LBV)

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 118

REPORT WRITING

3 CR. (3L)

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 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Library Technician

LTN 101

INTRODUCTION TO LIBRARY SERVICES

3 CR. (3L)

PRQ: Successful completion of BTE 100, BTE 102, or BTE 203, or equivalent; and successful completion of CIS 110 or equivalent assessment score. Introduces libraries and their procedures through research, vocabulary, readings and assignments. Identifies current tools such as wikis, blogs, podcasting, interactive web pages and other online services. Presents resources for library technicians.

LTN 110

SELECTION AND ACQUISITIONS

3 CR. (3L)

Introduces the student to the tools, vendors, jobbers and approval plans that comprise the selection process. In addition, the student is introduced to acquisitions policy. The student engages in a course project whereby he/she applies a collection evaluation methodology to a section of a library collection and locates and recommends replacement titles.

LTN 115

LIBRARY CIRCULATION

3 CR. (3L)

PRQ: CCR 092 or CCR 093 or placement into ENG 121 or CORQ: CCR 094. Discusses customer service and circulation issues and procedures. Students will learn the role of customer service and the effects that automation has had on the circulation function of the library.

LTN 118

AUDIO VISUAL MANAGEMENT

2 CR. (2L)

PRQ: Successful completion of BTE 100, BTE 102 or BTE 103, or equivalent, or demonstrated ability to type 30 words per minute. Provides tools to help in selecting equipment, writing bid specifications, using standard equipment and in-house maintenance tips. Includes statistics keeping and repair records.

LTN 205

INTRODUCTION TO CATALOGING & CLASSIFICATION

3 CR. (3L)

Introduces the library organization, how to use Dewey and Sears subject headings, elements of cataloging, practice in the use of Dewey and the Library of Congress classification systems, use of cutter tables, subject classification, accession numbers, and bar codes. Basic philosophy, procedures, tools and techniques for library routines are emphasized.

LTN 210

REFERENCE MATERIALS

3 CR. (3L)

Teaches how to select reference materials, how to use at least 100 reference resources, the reference interview, and the role of resource sharing (interlibrary loan) in reference. Students will prepare a bibliography of the 100 titles they would want in their reference collection and 10 online sources they find useful.

LTN 220

LIBRARY/MEDIA CENTER MANAGEMENT & PUBLIC RELATIONS

3 CR. (3L)

PRQ: Successful completion of LTN 101. Includes budget preparation, how to work with staff, the public, and administrators, and the use of statistics.

LTN 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Literature

LIT 115

INTRODUCTION TO LITERATURE I: GT-AH2

3 CR. (3L)

PRQ: CCR 092. CORQ: ENG 121, CCR 094. Introduces students to fiction, poetry and drama. Emphasizes active and responsive reading. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

LIT 125

STUDY OF THE SHORT STORY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. 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 126

STUDY OF POETRY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. Focuses on careful reading and interpretation of various poems representing types and periods of poetry. It examines formal as well as thematic elements of poetry. Critical thinking, discussion and writing about poetry will enhance perceptive reading skills and heighten awareness of the human condition.

LIT 127

STUDY OF THE NOVEL

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. Focuses on careful reading and interpretation of selected novels representing types and periods of literature. Students will examine formal as well as thematic elements of longer fiction. Critical thinking, discussion and writing about novels will enhance perceptive reading skills and heighten awareness of the human condition.

LIT 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

LIT 201

WORLD LITERATURE TO 1600: GT-AH2

3 CR. (3L)

PRQ: CCR 092. CORQ: ENG 121, CCR 094. Examines significant writings in world literature from the ancients through the Renaissance. Emphasizes careful readings and understanding of the works and their cultural backgrounds. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

LIT 202

WORLD LITERATURE AFTER 1600: GT-AH2

3 CR. (3L)

PRQ: CCR 092. CORQ: ENG 121, CCR 094. Examines significant writings in world literature from the 17th century to the present. Emphasizes careful reading and understanding of the works and their cultural backgrounds. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

LIT 205

ETHNIC LITERATURE: GT-AH2

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. 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. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

LIT 211

AMERICAN LITERATURE TO CIVIL WAR: GT-AH2

3 CR. (3L)

PRQ: CCR 092. CORQ: ENG 121, CCR 094. Provides an overview of American literature from the Native American through the 19th-century Romantics. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

LIT 212

AMERICAN LITERATURE AFTER CIVIL WAR: GT-AH2

3 CR. (3L)

PRQ: CCR 092. CORQ: ENG 121, CCR 094. Provides an overview of American literature from the mid-19th century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

LIT 238

INTRODUCTION TO MODERN POETRY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. Demonstrates how modern poetry works, what it means, and how history, imagination and language are used in the act of poetic creation.

LIT 246

LITERATURE OF WOMEN: GT-AH2

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. Examines the techniques and themes in literature by and about women by examining women's issues from various genres. This course is one of the statewide Guaranteed Transfer courses, GT-AH2.

LIT 255

CHILDREN'S LITERATURE

3 CR. (3L)

PRQ: CCR 092. CORQ: ENG 121, CCR 094. 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 AND FILM

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. Examines the relationship between literature and motion pictures, emphasizing the technique and interpretive function of filmmakers.

LIT 269

POPULAR LITERATURE AND CULTURE

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: CCR 094. Explores special interests in literature, such as detective fiction and science fiction.

LIT 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Machining

MAC 100

MACHINE SHOP SAFETY

1 CR. (1.5 LBV)

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 102

PRINT READING FOR MACHINISTS

3 CR. (3L)

Instructs students in reading and understanding industrial prints. This course covers basic drafting and print standards, fundamentals of shape description, fundamentals of size description and annotation, industrial drawing types, and specialized parts and prints. Symbol interpretation, tolerancing and dimensioning standards are also covered.

MAC 105

INTRODUCTION TO MACHINING TECHNOLOGY

4 CR. (1.5L/3.75 LBV)

Introduces the student to the changing era of machining technology, emphasizing terminology, referencing and applications related to manufacturing environments. The fundamental use of bench tools, layout procedures, materials, precision measuring tools, machining processes, drilling and cut-off machines and other machining/manufacturing processes will be stressed. Skill competencies and standards will be identified. Use of the Machinery's Handbook will be strictly required and particular competencies may require performance evaluations.

MAC 130

CONVENTIONAL LATHE OPERATIONS

4 CR. (1.5L/3.75 LBV)

Includes calculation of speeds and feeds on various materials, identification and application of various work holding techniques, tool forming, advanced machining practices and applications, and spindle tooling. Students will learn how to calculate and turn tapers using the compound slide or taper attachment, offset work on a four jaw chuck, turning between centers, boring, grooving, finishing, single point threading, knurling, tool grinding, drilling operations, and reaming.

MAC 131

MILLING MACHINES & OPERATIONS

4 CR. (1.5L/3.75 LBV)

Introduces vertical milling machines. The operations and applications will consist of using the machine controls, speeds and feeds, spindles, arbors and adapters cutting tools, tool holders, conventional and climb milling applications simple indexing, fixture alignments, work holding methods. Students will become familiar with set-up applications considering offset boring operations, face milling, plain milling, and precision drilling applications. Students will be required to produce parts to a tolerance of +/- .004in. and perform competencies set by manufacturing standards.

MAC 141

ADVANCED MACHINING OPERATIONS

4 CR. (1.5L/3.75 LBV)

Provides the student the use of various conventional machine tools used in a machine shop environment. The use of engine lathes, horizontal and vertical milling machines, surface grinders, drill presses, pedestal grinders, power cut-off saws and other machine tools commonly used to produce quality machined parts in today's manufacturing environments. Machining competencies will be stressed and students will be required to produce parts manufactured by local manufacturing companies with the consideration of ISO quality standards.

MAC 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MAC 201

INTRODUCTION TO CNC TURNING OPERATIONS

3 CR. (1L/3 LBV)

CORQ: Successful completion of any CCR course or qualifying placement score or exemption, or instructor approval. Covers computer numerical control (CNC) lathe operations, control functions, the letter address system, the program format, and machine setup. G&M codes, control functions, the letter address system, and math issues related to CNC are included. This class is NOT offered on an open-entry, open-exit basis.

MAC 202

CNC TURNING OPERATIONS II

3 CR. (1L/3 LBV)

PRQ: MAC 201. Prepares students to write basic computer numerical control (CNC) lathe part programs. G&M codes, math related to CNC, setups, speeds and feeds, straight turning, spherical turning, threading, chamfering, tapering, drilling, tapping, boring, and grooving will be covered. Cutter compensations, subprogramming techniques, repetitive cycles, and both absolute and incremental will be incorporated into programs. Students will also proof and edit the programs to make them valid. This class is NOT offered on an open-entry, open-exit basis.

MAC 205

INTRODUCTION TO CNC MILLING OPERATIONS

3 CR. (1L/3 LBV)

CORQ: Successful completion of any CCR course or qualifying placement score or exemption, or instructor approval. 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 CR. (1L/3 LBV)

Exposes the student to the principle operations of both vertical and horizontal CNC milling machines via lecture instruction methods, multimedia 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 CR. (3L)

PRQ: CIS 110, equivalent assessment test score, or instructor approval. 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 CR. (1L/3 LBV)

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 remachining operations. Coursework will primarily focus on 2D geometry projects.

MAC 245

CADCAM 3D

3 CR. (1L/3 LBV)

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 250

ADVANCED INSPECTION TECHNIQUES

3 CR. (1L/3 LBV)

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.

MAC 256

INDUSTRIAL COMPONENTS

3 CR. (2L/1.5 LBV)

Covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in removal, installation and maintenance of plant equipment. It includes safety, fits, threads, bearings, fasteners, and hardware, lubrication, assembly and the use of hand tools.

MAC 265

MECHANICAL COMPONENT II

3 CR. (2L/1.5 LBV)

Covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in removal, installation and maintenance of plant equipment. It includes coupling, vibration, shafting, keys and keyways, belts and chain drives, gears and gear drive, and seals.

MAC 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Management

MAN 102

BUSINESS ETHICS AND VALUES

1 CR. (1L)

Discusses behavior and identifies what is ethical and appropriate behavior and what is not. This course will identify the role of integrity, character, honesty, self-control, self-sacrifice and core values in developing ethical and effective behavior in the workplace.

MAN 103

MANAGING BUSINESS CHANGE

1 CR. (1L)

Explores how change in the workplace affects employees and customers. A description of how cultures promote behaviors will be presented. The changing roles of men and women and their impact on the workplace will be discussed and analyzed.

MAN 104

MANAGING WORKPLACE STRESS

1 CR. (1L)

Defines stress in both positive and negative effects. A discussion on how it effects both employees and the workplace. Causes of stress are identified and methods for managing stress are researched and practiced.

MAN 105

LOGISTICS MANAGEMENT

3 CR. (3L)

PRQ: MTE 101, CIS 151, CIS 131 OR CIS 118. Explores the logistic system from inbound movement of materials and freight into the organization, through physical distribution of the completed product to the consumer. Transportation systems, government regulations, material handling, inventory management and distribution centers are covered.

MAN 116

PRINCIPLES OF SUPERVISION

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 CR. (1L)

Provides students with the conceptual knowledge and tools to make better use of their time in the management function.

MAN 125

TEAM BUILDING

1 CR. (1L)

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 126

TOTAL QUALITY MANAGEMENT

3 CR. (3L)

Covers the rationale for, method of implementing and key characteristics of TQM. Topics include developing a vision of a quality culture, strategic planning for implementation, customer focus, supplier relationships, benchmarking, continuous improvement, employee empowerment and teamwork. Through case studies students learn to apply TQM in manufacturing and service environments.

MAN 128

HUMAN RELATIONS IN ORGANIZATIONS

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 168

BASIC PROCESS CONTROLS

2 CR. (3L)

PRQ: MTE 101, MTE 120, MAT 121, CIS 131, CIS 151 OR CIS 118. Presents the basic concepts and terminology of statistical process control. Participants learn and practice the seven quality tools to find and remove causes of process variation. Participants will identify and become familiar with the basic statistical tools, their uses, and potential application and be introduced to process capability, variation, and process control.

MAN 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MAN 200

HUMAN RESOURCE MANAGEMENT I

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 201

HUMAN RESOURCE MANAGEMENT II

3 CR. (3L)

PRQ: MAN 200. Offers further discussion of concepts of human resources. Topics covered include techniques and procedures in resources planning, appraising performance, selection and staffing, training and development, job enrichment, and wage and salary administration.

MAN 215

ORGANIZATIONAL BEHAVIOR

3 CR. (3L)

PRQ: MAN 128. Examines the behaviors of groups and individual members of organizations and how that behavior can be influenced. Course emphasis is on the tools managers use to achieve organizational effectiveness.

MAN 216

SMALL BUSINESS MANAGEMENT

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or MAT 107, or department chair approval. 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 224

LEADERSHIP

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Focuses on the leadership skills necessary to bring about change in an organization. Students learn to develop and communicate a shared vision, to empower employees, to manage conflict, to negotiate, and to develop organizations so that all are working toward common goals.

MAN 225

MANAGERIAL FINANCE

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or MAT 107, or department chair approval. Examines the concepts and techniques used to analyze financial accounting information for managerial planning, decision making and control. The focus of the course is on decision-making relating to the areas of budgets, forecasts, cost volume production, ROI and financial statements.

MAN 226

PRINCIPLES OF MANAGEMENT

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 CR. (3L)

PRQ: Registered with the American Registry of Radiologic Technologists. Exploration of the history, physical principles and instrumentation involved in computed tomography (CT). CT image creation, processing and display will be examined from data acquisition through post-processing and archiving. Patient factors and other related elements affecting image quality will be explained, as well artifact production and reduction. Radiation protection practices and quality control will also be explored.

MAN 241

PROJECT MANAGEMENT IN ORGANIZATIONS

3 CR. (2L/1.5 LBV)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or MAT 107, or department chair approval. Introduces students to the planning, implementation and control activities of project management, including project and performance evaluation, quality control and work flow analysis. Emphasis will be on the initiating, planning, executing, controlling and closing activities of project management.

MAN 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MAN 289

CAPSTONE: MANAGEMENT INFORMATION SYSTEMS

3 CR. (9 INT)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Utilizes seminar and simulation techniques in management information systems. Management concepts and principles are applied to both situational and comprehensive case problems.

Manufacturing Technology

MTE 101

INTRODUCTION TO MANUFACTURING

3 CR. (3L)

Gives students a broad understanding of manufacturing and the role of the manufacturing technician. Students learn how manufacturing is important to Colorado and the US. Topics covered include manufacturing concepts, principles, and processes, cost elements, tools and techniques, safety, current trends and manufacturing in the future.

MTE 105

SAFETY MANUFACTURING ENVIRONMENT

1 CR. (1L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces federal and state regulations, industrial practices, and accident investigation techniques. This course covers hazard communication standard, lockout/tagout procedures, eye safety, lifting techniques, electrical safety, stored energy safety, personal protective equipment, safety program development and monitoring, and accident investigation techniques. This course also serves as the prerequisite for all Advanced Technology Center programs.

MTE 106

PRINT READING MANUFACTURING

3 CR. (1L/3LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Instructs students in reading and understanding industrial prints. This course covers basic drafting and print standards, fundamentals of shape description, fundamentals of size description and annotation, industrial drawing types, and specialized parts and prints. Symbol interpretation tolerancing and dimensioning standards are also covered.

MTE 110

APPLIED COMMUNICATION AND TEAMWORK IN INDUSTRY

3 CR. (3L)

Provides the student with an in-depth focus on the fundamental concepts and approaches required by industry to establish strong comprehensive and recognized skills in the areas of critical thinking, emotional intelligence, team dynamics, leadership roles, conflict resolution and results-oriented communication skills. This course is taught from a contextualized format.

MTE 120

MANUFACTURING PROCESSES

3 CR. (3L)

Provides the student an overview of the different methods, tools and machines which are used to manufacture industrial and consumer products.

MTE 175-177

SPECIAL TOPICS

0-12 CR

Provides student with a vehicle to pursue in-depth exploration of a special topic of interest.

MTE 238

FLUID POWER CONTROL

3 CR. (1L/3LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces fluid power application in industry and various types of industrial control devices used in modern manufacturing equipment and machinery. Enables the student to produce the graphics required to incorporate these items into a mechanical design.

MTE 244

LEAN MANUFACTURING PRAC/PROC

3 CR. (3L)

PRQ: MAN 168. Provides a study of the Toyota Production System (TPS), also known as lean manufacturing, just-in-time (JIT), demand flow, or build-to-order. The course covers the build-to-forecast batch-process method and compares it with TPS. The students study and develop in the lab the following TPS concepts/methods: customer expectations, seven fundamental wastes, plan-do-check-act cycle, kanban system and kanban types, material flow, group technology, manufacturing cells, point-of-use storage and support, and setup/changeover time reduction. This course also covers application of the following problem-solving tools: flowchart, cause-and-effect diagram, check sheet, Pareto chart, root cause analysis, statistical process control. Students investigate the basics of high-mix, low-volume manufacturing.

MTE 247

STRENGTH OF MATERIALS

3 CR. (3L)

PRQ: EGG 271. 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.

MTE 275-276

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MTE 289

MANUFACTURING CAPSTONE

3 CR. (3L)

PRQ: Instructor's approval only. Provides a demonstrated culmination of learning with a given program of study.

Marketing

MAR 106

MARKETING YOUR IMAGE

3 CR. (3L)

Teaches students how to market themselves to prospective employers, clients, professional groups and audiences of all types. Major emphasis will be placed on skills used to gain employment (resumes, interviewing and professional appearance) and on skills used to achieve continued personal success (professional behavior and attitude). The course will include at least one simulated interview.

MAR 111

PRINCIPLES OF SALES

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 CR. (3L)

PRQ: CIS 110, Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 158

BASIC CUSTOMER SERVICE

1 CR. (1L)

Focus on basic concepts and techniques needed to effectively serve customers. Specific emphasis given to manage customer expectations by building customer rapport and create positive outcomes.

MAR 160

CUSTOMER SERVICE

3 CR. (3L)

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 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MAR 216

PRINCIPLES OF MARKETING

3 CR. (3L)

PRQ: CIS 110, Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Examines the principles and practices of advertising and its relationship to business in order to promote a business or organization. Areas of major emphasis include advertising principles, strategies, media, copy and layout, and ethical considerations.

MAR 222

IMPLEMENTING e-COMMERCE

3 CR. (3L)

PRQ: CIS 110, successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Provides the student with practical skills and knowledge of e-commerce implementation methodology. Topics include strategic planning for e-commerce, project management, change management, role of technology, implementation planning and assessment. Students use case studies to examine standards and practices of businesses implementing e-commerce applications and solutions.

MAR 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

****Masonry Arts**

**MAA 113

MASONRY I

4 CR. (1L/4.5LBV)

Introduces students to the masonry trade. Covers the history of the trade, safety, tools and equipment, masonry math, mortar joints and applications, and brick materials layout. The ability to lift 80 pounds and climb a 25-foot ladder is required.

**MAA 123

MASONRY II

4 CR. (1L/4.5LBV)

Introduces students to the masonry trade. Covers the history of the trade, safety, tools and equipment, masonry math, mortar joints and applications, and brick materials layout. The ability to lift 80 pounds and climb a 25-foot ladder is required.

**MAA 143

MASONRY IV

4 CR. (1L/4.5LBV)

Covers materials handling and storage, advanced laying techniques, control joints, corners and poles, flashing and lintels, elevated masonry, commercial and residential drawings, all-weather masonry, wall insulation, openings, columns, sample panels and prisms. Evaluation ends the second year of Masonry.

**MAA 153

MASONRY V

4 CR. (1L/4.5LBV)

Covers safety panels and prisms, brick creativity, stone work, residential masonry, glass block, acid brick and refractories, structured glazed tile, repair and restoration, panel construction, welding and brick paving.

Massage Therapy

HHP 130

REIKI LEVEL ONE

1 CR. (1L)

PRQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. Explores the traditional Usui use of Reiki. Covers the history and development of Reiki work, beginning in Japan, to Hawaii, to the US, and later Europe. Focuses on the fundamental beliefs and the dynamics of the Reiki process. Enables each student to receive Reiki attunements to prepare for the Reiki energy work. Each class member gives and receives a Reiki hands-on treatment session.

HHP 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HHP 246

SECOND DEGREE REIKI

1 CR. (1L)

PRQ: HHP 130. Program chair approval. Teaches the learning and meaning of the three traditional Usui symbols. Incorporates in-depth discussion about application of the three symbols. Students learn about the necessary preparation of a Reiki therapist in offering treatments. One attunement is given to each student. Each member gives and receives a Reiki treatment session, utilizing the three Reiki symbols. Long-distance and mental Reiki processes are learned. Reiki Therapist Certification available upon completion.

HHP 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

HPR 117

ANATOMICAL KINESIOLOGY

3 CR. (1L/3 LBV)

PRQ: HPR 178, MST program admittance or PTA department chair approval. Studies the Anatomical Bases of Human Movement.

Math

MAT 025

ALGEBRAIC LITERACY LAB

1 CR. (2LBA)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: MAT 055. 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 prerequisite skills needed by the student. For students with Accuplacer score EA 45-59, this course is a required corequisite with MAT 055 Algebraic Literacy.

MAT 050

QUANTITATIVE LITERACY

4 CR. (4L)

PRQ: Refer to Page 47. Develops number sense and critical thinking strategies, introduces algebraic thinking, and connects 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 CR. (4L)

PRQ: Refer to Page 47. 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.

MAT 075-077

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MAT 091

APPLIED QUANTITATIVE LAB

1 CR. (2LBA)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: MAT 103, MAT 107, MAT 108, or MAT 112. Supports skill development for students registered in MAT 103, MAT 107, MAT 108, MAT 109, or MAT 112. Topics covered in the course include those defined in MAT 103/107/108/109/112 and/or any prerequisite skills needed by the student. Students with Accuplacer scores EA 30-59 or AR 40+, who are advised into MAT 103/107/108/109/112, are required to co-enroll in this course.

MAT 092

QUANT LAB

1 CR. (2LBA)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: MAT 120, MAT 135, MAT 155, or MAT 156. Supports skill development for students registered in MAT 120, MAT 135, MAT 155, or MAT 156. Topics covered in this course include those defined in MAT 120/135/155/156 and/or any prerequisite skills needed by the student. Students with Accuplacer scores EA 80-84, who are advised into MAT 120, MAT 135, MAT 155, or MAT 156, are required to co-enroll in this course.

MAT 093

ALGEBRA LAB

1 CR. (2LBA)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: MAT 121. Supports skill development for students registered in MAT 121 or MAT 123. Topics covered in this course include those defined in MAT 121/123 and/or any prerequisite skills needed by the student. Students with Accuplacer scores EA 80-84, who are advised into MAT 121/123, are required to co-enroll in this course.

MAT 101

ENHANCED MATHEMATICS SUPPORT

1 CR. (2 LBA)

CORQ: MAT 050. 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 CR. (3L)

PRQ: MAT 050. 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 CR. (3L)

PRQ: MAT 050. Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs and/or finance. These are presented on an introductory level and the emphasis is on applications.

MAT 108

TECHNICAL MATHEMATICS

4 CR. (4L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of MAT 050 with a grade of S/C or better. 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 at an introductory level and the emphasis is on applications.

MAT 112

FINANCIAL MATHEMATICS

3 CR. (3L)

PRQ: MAT 050. Covers topics including pricing, taxes, insurance, interest, annuities, amortization, investments using financial calculators and spreadsheets.

MAT 120

MATHEMATICS FOR THE LIBERAL ARTS: GT-MA1

4 CR. (4L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of MAT 050 with a grade of S/C or better. Develops mathematical and problem-solving skills. Appropriate technological skills are included. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. Additional content will include one topic in geometry, numeration systems, decision theory or management science. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 121

COLLEGE ALGEBRA: GT-MA1

4 CR. (4L)

PRQ: MAT 055. Explores topics including intermediate algebra, equations, and inequalities, functions and their graphs, exponential and logarithmic functions, linear and nonlinear systems, selection of topics from among graphing of the conic sections, introduction to sequences and series permutations and combinations, the binomial theorem and theory of equations. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 122

COLLEGE TRIGONOMETRY: GT-MA1

3 CR. (3L)

PRQ: MAT 121. Covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 125

SURVEY OF CALCULUS: GT-MA1

4 CR. (4L)

PRQ: Successful completion of MAT 121 with a grade of C or better or equivalent assessment test score. This course includes derivatives, integrals and their applications, with attention restricted to algebraic, exponential and logarithmic functions for business, life science and/or social science majors. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 135

INTRODUCTION TO STATISTICS: GT-MA1

3 CR. (3L)

PRQ: MAT 050. Explores and applies data presentation and summarization, introduction to probability concepts and distributions, statistical inference – estimation, hypothesis testing, comparison of populations, correlation and regression. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 155

INTEGRATED MATH I

3 CR. (3L)

PRQ: MAT 050. Engages students in the concepts of school mathematics, including the recognition of numerical and geometric patterns and their application to a variety of mathematical situations; mathematical problem-solving, reasoning, critical thinking, and communication; algebraic thinking, representation, analysis, manipulation, generalizations and extensions. (This course is only offered in the fall semester.)

MAT 156

INTEGRATED MATH II

3 CR. (3L)

PRQ: MAT 155. Furthers MAT 155 concepts and will include fundamentals of probability, statistics and Euclidean geometry. Mathematical problem-solving, reasoning, critical thinking and communication will continue to be an integral part of this sequence. (This course is only offered in the spring semester.)

MAT 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MAT 201

CALCULUS I: GT-MA1

5 CR. (5L)

PRQ: MAT 122. Introduces single variable calculus and analytic geometry. It includes limits, continuity, derivatives and applications of derivatives as well as indefinite and definite integrals and some applications. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 202

CALCULUS II: GT-MA1

5 CR. (5L)

PRQ: MAT 201. Continues the study of single variable calculus which will include techniques of integration, polar coordinates, analytic geometry, improper integrals and infinite series. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 203

CALCULUS III: GT-MA1

4 CR. (4L)

PRQ: MAT 202. Focuses the traditional subject matter of the Calculus. Topics include vectors, vector-valued functions, and multivariable calculus including partial derivatives, multiple integrals, line integrals and application. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 204

CALCULUS III WITH ENGINEERING APPLICATIONS: GT-MA1

5 CR. (5L)

PRQ: Successful completion of MAT 202 with a grade of C or better. Focuses on the competencies established in 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. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 255

LINEAR ALGEBRA

3 CR. (3L)

PRQ: Successful completion of MAT 201 with a grade of C or better. Explores vector spaces, matrices, linear transformations, matrix representation, eigenvalues and eigenvectors.

MAT 261

DIFFERENTIAL EQUATIONS WITH ENGINEERING

APPLICATIONS: GT-MA1

4 CR. (4L)

PRQ: Successful completion of MAT 202 with a grade of C or better. This course introduces ordinary differential equations. The content of this course includes all the topics of MAT 265 Differential Equations with an additional emphasis on applications and problem solving. A graphing calculator is required for this course. This course is one of the statewide Guaranteed Transfer courses, GT-MA1.

MAT 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Medical Assistant Professional

MAP 110

MEDICAL OFFICE ADMINISTRATION

4 CR. (4L)

PRQ: Department chair approval. Introduces the administrative duties specifically used in medical offices.

MAP 120

MEDICAL OFFICE FINANCIAL MANAGEMENT

4 CR. (4L)

PRQ: Department chair approval. Covers the practical uses of accounts and records with emphasis on accounting principles and analysis for use in a medical office. Introduces outpatient coding with an ultimate goal to present a clear picture of medical procedures and services performed (CPT codes), correlating the diagnosis, symptom, complaint or condition (ICD codes), thus establishing the medical necessity required for third-party reimbursement.

MAP 138

MEDICAL ASSISTING LABORATORY

4 CR. (2L/4 LBV)

PRQ: Department chair approval. 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.

MAP 140

MEDICAL ASSISTING CLINICAL SKILLS

4 CR. (2L/4 LBV)

PRQ: Department chair approval. Provides hands-on experience with clinical skills required in medical offices. Delivers theory and skills presentations allowing for students to properly demonstrate techniques for a variety of medical needs.

MAP 150

PHARMACOLOGY FOR MEDICAL ASSISTANTS

3 CR. (3L)

PRQ: Department chair approval. 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.

MAP 183

MEDICAL ASSISTANT INTERNSHIP

4 CR. (12 INT)

PRQ: Department chair approval. 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 nonpaid. Student must have permission by program coordinator to begin internship.

MAP 189

REVIEW FOR MEDICAL ASSISTANT NATIONAL EXAM

1 CR. (1L)

PRQ: Department chair approval. 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, supporting quality care in the office or clinic.

Medical Office Technology

MOT 125

BASIC MEDICAL SCIENCES I

3 CR. (3L)

PRQ: Successful completion of CCR or qualifying placement score or exemption. Introduces 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. The scope of the material is limited for the medical office technology personnel.

MOT 133

BASIC MEDICAL SCIENCES II

3 CR. (3L)

PRQ: Successful completion of CCR or qualifying placement score or exemption. 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 CR. (3L)

PRQ: Successful completion of CCR or qualifying placement score or exemption. 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.

Meteorology

MET 150

GENERAL METEOROLOGY: GT-SC1

4 CR. (3L/2 LBA)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Provides an introduction to general meteorology and atmospheric sciences. It includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure and moisture. Additionally, the development of weather systems such as storm systems, hurricanes, weather fronts and cloud development will also be examined. Finally, concepts of climatology will be stressed. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

Multimedia and Graphic Design

MGD 101

INTRODUCTION TO COMPUTER GRAPHICS

3 CR. (2 L/1.5 LBV)

Introduces the student to the computer system and software used to develop graphics. The student will learn the hardware and software components for publication and multimedia production through execution in various vector, raster, page layout and multimedia programs. Students will be introduced to career opportunities within graphics fields.

MGD 102

INTRODUCTION TO MULTIMEDIA

3 CR. (4.5 LBV)

PRQ: CIS 110, equivalent assessment test score, or department chair approval. Introduces the basic components of multimedia: text, graphics, animation, sound and video. Students gain an introductory knowledge of various multimedia and design software programs. Students gain hands-on, technical, conceptual and aesthetic experience pertaining to the creation of multi-dimensional design and time-based media via an array of projects and demonstrations. Students will be introduced to career opportunities within multimedia fields.

MGD 104

VIDEOGRAPHY

3 CR. (1L/3 LBV)

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 CR. (4.5 LBV)

PRQ: CIS 110 or equivalent assessment test score. 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 AND VISUAL THINKING

3 CR. (6 STA)

Introduces the visual and oral skills necessary to analyze works art and design, articulate complex ideas, then present the solution cogently in 2D and 3D projects and presentation skill building. The underlying philosophy of what we see, how we see and what we do with it is the major concern of this class.

MGD 107

HISTORY OF DESIGN

2 CR. (2L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. 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 111

ADOBE PHOTOSHOP I

3 CR. (4.5 LBV)

Concentrates on the high-end capabilities of Adobe Photoshop 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. Course competencies and outline follow those set out by the Adobe Certified Associate exam in Visual Communication using Adobe Photoshop.

MGD 112

ADOBE ILLUSTRATOR I

3 CR. (4.5 LBV)

Concentrates on the high-end capabilities of Adobe Illustrator as an illustration, design and vector drawing tool. Students learn how to use the tools to create digital artwork that can be used in web design, print media and digital screen design. Course competencies and outline follow those set by the Adobe Certified Associate exam in Visual Communication using Adobe Illustrator.

MGD 113

QUARK XPRESS

3 CR. (4.5 LBV)

Introduces students to QuarkXPress, a digital page layout tool. Students learn how to assemble, organize, manipulate and manage text and graphics to produce a high-quality publication. Class discussions and independent projects supplement hands-on classroom work.

MGD 114

ADOBE INDESIGN

3 CR. (2L/1.5 LBV)

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 117

INTRODUCTION TO VISUAL COMMUNICATIONS

3 CR. (3L)

Surveys visual communications, its history and impact on society. A foundation course for graphic design and illustration majors and a survey for non-majors who are interested in the field. Assignments require minimal artistic talent.

MGD 133

GRAPHIC DESIGN I

3 CR. (4.5 LBV)

PRQ: MGD 105 and MGD 111 or MGD 114, or department chair approval. Focuses upon the study of design layout and conceptual elements concerning graphic design projects such as posters, advertisements, logos and brochures.

MGD 141

WEB DESIGN I

3 CR. (4.5 LBV)

Introduces website planning, design and creation using industry standards-based website development tools. Screen-based color theory, web aesthetics, use of graphics editors and intuitive interface design are explored.

MGD 143

MOTION GRAPHIC DESIGN I: (SOFTWARE)

3 CR. (1L/3 LBV)

PRQ: CIS 110, equivalent assessment test score, or department chair approval. Stresses creation of animation and dynamic interactive media for web and multimedia applications to a professional standard. Students will learn how to develop projects for time-based media, key-frames, tweens and symbols. Students will learn how to use actions to trigger timeline events to create interactive behaviors.

MGD 145

QUICKTIME TECHNOLOGIES

3 CR. 2L/1.5 LBV)

Introduces students to current QuickTime technologies for Web applications. Students will prepare panoramic and object QTVR content, streaming audio and video in QuickTime format. Students will publish digitized video and audio in HTML Web pages on a local server.

MGD 163

SOUND DESIGN I

3 CR. (1L/3 LBV)

PRQ: CIS 110. Explores the use of sound in multimedia production and audio storytelling. Students examine the principles of recording. Classes focus on how sound can enhance interactive productions and improve computer presentations. Students learn how to use the computer as a full audio editing studio.

MGD 164

DIGITAL VIDEO EDITING I

3 CR. (1L/ 3 LBV)

Introduces to digital nonlinear 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 167

GAME DESIGN I

3 CR. (1L/3 LBV)

PRQ: Department chair approval. Introduces students to game design from conceptual development and functionality, through production of a virtual world prototype. Students examine such things as character registration, in-betweens, inking and clean up used for creating real-time game environments. Storytelling and visual metaphor development are emphasized.

MGD 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MGD 202

POINT OF PURCHASE PACKAGING DESIGN

3 CR. (4.5 LBV)

PRQ: MGD 133 concurrently, or MGD 105, MGD 112. 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 CR. (4.5 LBV)

PRQ: Department chair approval. 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 211

ADOBE PHOTOSHOP II

3 CR. (1L/3 LBV)

PRQ: MGD 111 or Instructor approval. Develops and reinforces image composition techniques learned in Adobe Photoshop I, MGD 111. Fundamentals are continuously reinforced as new design techniques are introduced.

MGD 221

COMPUTER GRAPHICS I

3 CR. (4.5 LBV)

PRQ: CIS 110, equivalent assessment test score, or department chair approval. Introduces the process of generating computer design.

MGD 222

COMPUTER GRAPHICS II

3 CR. (6 STA)

PRQ: MGD 221 or instructor's approval. Continues MGD 221 with advanced problems in generating computer design for graphics application, emphasizing production of individual fine art pieces.

MGD 227

MARCOMM PRACTICES

3 CR. (4.5 LBV)

Explores techniques and approaches in the practice of marketing communications (marcomm), including advertising, branding, direct marketing, packaging, promotion, publicity, sponsorship, public relations, sales, online marketing, social media marketing and more. Focuses on understanding the relationships between the different components of marketing communications to achieve maximum message effect.

MGD 233

GRAPHIC DESIGN II

3 CR. (4.5 LBV)

PRQ: MGD 133. Continues instruction in idea development for advanced graphic design.

MGD 241

WEB DESIGN II

3 CR. (4.5 LBV)

PRQ: CIS 110 or equivalent assessment test score, MGD 141, or instructor approval. Expands on previously learned fundamentals of HTML introducing cascading style sheets, DHTML, Java Scripts and CGI forms. Color usage and interface design principles are emphasized in this course. In this course we'll examine websites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

MGD 243

WEB MOTION GRAPHIC DESIGN II

3 CR. (1L/3 LBV)

PRQ: 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 websites. Website justification of motion graphics will be stressed, appraised and weighed.

MGD 256

GRAPHIC DESIGN PRODUCTION

3 CR. (4.5 LBV)

PRQ: Department chair approval. Provides an opportunity to combine several draw and paint applications into one design and layout class. Students will explore advanced techniques in creating and designing computer art.

MGD 264

DIGITAL VIDEO EDITING II

3 CR. (1L/3 LBV)

PRQ: MGD 164 or instructor's approval. 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 267

GAME DESIGN II

3 CR. (1L/3 LBV)

PRQ: MGD 167. Explores more advanced features of game design. Students examine such things as integration of mainline code, subroutines and interrupts into game structure. I/O structure, playtesting and distribution are emphasized.

MGD 268

BUSINESS FOR CREATIVES

3 CR. (2L/1.5 LBV)

PRQ: Department chair approval. 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 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MGD 280

INTERNSHIP

3 CR. (9 INT)

PRQ: Department chair approval. 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

3 CR. (9 INT)

PRQ: Department chair approval. A demonstrated culmination of learning within a given program of study.

Music

MUS 100

MUSIC THEORY FUNDAMENTALS I

3 CR. (3L)

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, chords, beginning level melodic and rhythm dictation, ear-training and sight-singing skills.

MUS 101

MUSIC THEORY FUNDAMENTALS II

3 CR. (3L)

PRQ: Successful completion of MUS 100, or department chair approval. 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 120

MUSIC APPRECIATION: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Covers the basic materials of music, musical forms, media, genres and musical periods. Emphasizes the development of tools for intelligent listening and appreciation. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

MUS 121

MUSIC HISTORY MEDIEVAL THRU CLASSICAL PERIOD: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Studies the various periods of music history with regard to the composers, esthetics, forms and genres of each period. Considers music from the Middle Ages through the Classical period. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

MUS 122

MUSIC HISTORY EARLY ROMANTIC PERIOD TO THE PRESENT: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Studies the various periods of music history with regard to the composers, aesthetics, forms and genres of each period. Considers music from the early Romantic period to the present. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

MUS 125

HISTORY OF JAZZ: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Provides a survey of the basic materials of music and the forms, media, genres, historical and cultural style periods of jazz. It emphasizes the development of tools for intelligent listening and appreciation. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

MUS 131

MUSIC CLASS I

2 CR. (5 STM)

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 CR. (5 STM)

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 141

PRIVATE INSTRUCTION (SPECIFY)

1 CR. (1-2 PRI)

1 credit primarily for nonmusic majors; 2 credits for music majors planning to transfer to 4-year school. Offers private instruction consisting of a 30- or 60-minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. First year, first term.

MUS 142

PRIVATE INSTRUCTION (SPECIFY)

1 CR. (1-2 PRI)

1 credit primarily for nonmusic majors; 2 credits for music majors planning to transfer to 4-year school. Offers private instruction consisting of a 30- or 60-minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. First year, second term.

MUS 143

PRIVATE INSTRUCTION (SPECIFY)

1 CR. (1-2 PRI)

1 credit primarily for nonmusic majors; 2 credits for music majors planning to transfer to 4-year school. Offers private instruction consisting of a 30- or 60-minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. First year, third term.

MUS 144

PRIVATE INSTRUCTION (SPECIFY)

1 CR. (1-2 PRI)

1 credit primarily for nonmusic majors; 2 credits for music majors planning to transfer to 4-year school. Offers private instruction consisting of a 30- or 60-minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. First year, fourth term. May be repeated for credit more than once per individual institution policy.

MUS 151

ENSEMBLE I

1 CR. (2.5 STM)

PRQ: Instructor's approval. First year, first term. Rehearses and performs various types of musical literature.

MUS 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

MUS 241

PRIVATE INSTRUCTION (SPECIFY)

1-2 CR. (2.5-5 STM)

1 credit primarily for non-music majors; 2 credits for music majors planning to transfer to 4-year school. Offers private instruction consisting of a 30- or 60-minute lesson per week. Participation in a student performance is required at least once each term for 1 credit. Regular attendance at and participation in student performances is required for 2 credits. Second year, first term.

MUS 275

SPECIAL TOPICS

0-12 CR.

Covers specific topics in music. This course is offered as needed for credit appropriate to the topic and each offering includes a description of the topic(s).

MUS 276 -277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Nail Technician

Please refer to Cosmetology.

Nursing

NUR 106

MED-SURG NURSING CONCEPTS

7 CR. (3.4L/0.9 LBV/9.9 CLI)

PRQ: Admission to Nursing program and completion of preceding required program course work or permission of the program director. CORQ: NUR 150 or permission of the program director. NUR106 is the first medical/surgical nursing course. Building on NUR109, 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

6 CR. (2L/6 LBV/6 CLI)

PRQ: Admission to Nursing program. CORQ: NUR 112, HPR 108, MAT 103. Nursing 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 CR. (2L)

PRQ: Admission to Nursing or Psychiatric Technician program. CORQ: NUR 109 or permission of the program director. 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

6 CR. (3.3L/2.1 LBV/6 CLI)

PRQ: Admission to Nursing program and completion of preceding required program course work or permission of the program director. CORQ: NUR 106 or permission of the program director. Nursing 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

4 CR. (2L/6 CLI)

PRQ: Admission to Nursing program and completion of preceding required program course work or program director permission. 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 171

CLINICAL II

3 CR. (6 CLI)

PRQ: Admission to Nursing program. CORQ: Completion or co-enrollment in corresponding didactic nursing course. Offers the clinical practicum to apply the related nursing theory.

NUR 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

NUR 189

TRANSITION FROM LPN TO ADN

3 CR. (2L/1.5 LBV/1.5 CLI)

PRQ: Admission to Nursing 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 206

ADVANCED CONCEPTS OF MEDICAL-SURGICAL NURSING I

6.5 CR. (3L/1.5 LBV/9 CLI)

PRQ: Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director. CORQ: NUR 212 or permission of the program director. NUR 206 builds on NUR106 focusing on advanced concepts of nursing applied to care of patients with high acuity medical/surgical conditions. Builds on medical/surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical reasoning necessary for safe, patient-centered nursing care to developmentally and culturally diverse adult patients. Incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse as applied in a variety of healthcare settings. Application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

NUR 211

PSYCHIATRIC-MENTAL HEALTH NURSING

4 CR. (2.7L/1.3 CLI)

PRQ: Admission to Nursing program and successful completion of preceding required program course work or permission of the program director. CORQ: NUR 212 or permission of program director. Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders.

NUR 212

PHARMACOLOGY II

2 CR. (2L)

PRQ: Admission to Nursing program and successful completion of preceding required program course work or permission of the program director. CORQ: NUR 211 or permission of the program director. 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

5 CR. (2.3L/8.1 CLI)

PRQ: Admission to Nursing program and successful completion of preceding program course work or permission of the program director. CORQ: NUR 206 and NUR 212 or permission of the program director. Nursing 216 is a continuation of Nursing 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

4 CR. (1.6L/7.2 CLI)

PRQ: Admission to Nursing program and successful completion of preceding program course work or permission of the program director. CORQ: NUR 216 or permission of the program director. Nursing 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 254

RN LICENSING EXAM PREPARATION

1.5 CR. (1.5L)

PRQ: Completion of three semesters of nursing coursework or instructor permission. Will provide a review of the RN NCLEX test plan content areas, review of NCLEX style question formats and the Computerized Adaptive Testing method. Students will review study options for preparing for the RN NCLEX exam and have the opportunity to develop a customized preparation plan for success on the RN NCLEX for Professional Nursing Licensure.

NUR 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Nursing Assistant

NUA 101

NURSE AIDE HEALTH CARE SKILLS

4 CR. (2L/3 LBV)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Prepares the student to perform the fundamental skills of the nurse aide. Basic nursing skills, communication skills, restorative services, personal care skills, safety and emergency care issues are covered. Includes knowledge and/or principles of asepsis, OSHA and HIPAA regulations. Ethical behaviors, cultural sensitivity and principles of mental health will be addressed, as well as patient/resident rights.

NUA 102

CERTIFICATION EXAM PREP

.5 CR. (.5 L)

PRQ: NUA 101, NUA 170, NUA 171. Helps prepare the student for the state certification exam through mock testing.

NUA 170

NURSE AID CLINICAL EXPERIENCE

1 CR. (1.5 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. Applies knowledge and skill gained in NUA 101 to patient care.

NUA 171

ADVANCED NURSE AIDE CLINICAL

1 CR. (1.5 CLI)

PRQ: Successful completion of CCR 092 and MAT 050 or qualifying placement scores or exemptions. 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 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Occupational Safety Technician

**OSH 127

10-HR CONSTRUCTION INDUSTRY STANDARDS

1 CR. (1L)

Provides a 10-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.

**OSH 146

HAZARDOUS MATERIALS

2 CR. (2L)

Provides information to students on chemical Right-to-Know awareness. Course topics include introduction to right-to-know awareness, chemical identification, chemical labeling and material safety data sheets.

Occupational Therapy Assistant

OTA 100

INTRODUCTION TO OCCUPATIONAL THERAPY

3 CR. (3L)

Explores career options in occupational therapy through discussion, observation and participation. Identifies the need for areas of occupation and the differences between health, illness and wellness. Describes the history and philosophy of occupational therapy and the roles, responsibilities and relationships between other healthcare professionals. Discusses ethical and legal implications of health care and explores basic sociological issues.

OTA 105

OCCUPATIONAL DISRUPTION AND ACTIVITY ANALYSIS

3 CR. (1L/3 LBV)

PRQ: Admission into the OTA program. Explores the diseases and aspects of health and wellness common to occupational therapy intervention and occupational disruption and gains insight to various treatment methods and techniques as well as applying activity/task analysis.

OTA 106

BASIC OCCUPATIONAL THERAPY FRAMES OF REFERENCE AND DOCUMENTATION

2 CR. (2L)

PRQ: Admission into the OTA program. Develops the ability to identify the types of occupational therapy documentation and practice basic documentation skills. Identifies models of practice, frames of reference and occupational therapy theories, founders, underlying assumptions of the theories, and implications to occupational therapy practice and treatment interventions.

OTA 121

ASSESSING MOVEMENT THROUGH OCCUPATION

4 CR. (2L/3 LBV)

PRQ: OTA 105, BIO 106. Provides communication strategies with clients and caregivers in an inter-professional setting. Students will demonstrate an understanding of how performance skills affect occupation and how assessments such as muscle movement, body mechanics, transfers, range of motion and manual muscle testing will influence rehabilitation.

OTA 122

ORIGINS OF OCCUPATION AND PERFORMANCE FROM THE NEONATE TO ADULTHOOD

2 CR. (2L)

PRQ: Admission into the OTA program. Explores the impact and influences of environment, community and various contexts of the client, focusing on a dynamic and ever changing occupational status through the influences of areas of occupation, contexts, performance patterns, client factors, performance skills, and activity demands from neonate through middle-age development.

OTA 125

BASIC OCCUPATIONAL THERAPY APPLICATION TO MENTAL HEALTH

4 CR. (3L/1.5 LBV)

PRQ: OTA 106, PSY 101. Identifies commonly seen signs and symptoms of mental illness that affect health and wellness and learn methods of screening and various occupational therapy techniques for the assessment and treatment of occupational disruption within a variety of contexts. A Level I Fieldwork experience is integrated within this course.

OTA 131

GERIATRIC CONCERNS, DISEASES AND TREATMENT TECHNIQUES

3 CR. (2L/1.5 LBV)

PRQ: OTA 105 and OTA 106. Explores aging trends and the impact of context and environmental influences on the older individual, focusing on an ever-changing occupational status through the influences of client factors, activity demands, and performance skills and patterns. Identify geriatric diseases and conditions common to occupational therapy and discuss strategies and methods of intervention.

OTA 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

OTA 181

GERIATRIC LEVEL I FIELDWORK EXPERIENCE

1 CR. (1.5 LBV)

PRQ: OTA 131. Identifies and provides practical experience in commonly seen disabilities, aspects of health and wellness, evaluation/assessment techniques, and methods for treatment for the geriatric population from diverse backgrounds in an inter-professional setting. Students will demonstrate universal precautions and safety standards in a variety of situations.

OTA 182

PHYSICAL DISABILITIES LEVEL I FIELDWORK EXPERIENCE

1 CR. (1.5 LBV)

PRQ: OTA 218. Identify and provide practical experience with commonly seen disabilities, aspects of health and wellness, evaluation/assessment techniques, and methods of treatment intervention for conditions affecting adult clients from diverse backgrounds in collaboration with intra-professional and inter-professional team members.

OTA 183

PEDIATRIC LEVEL I FIELDWORK EXPERIENCE

1 CR. (1.5 LBV)

CORQ: OTA 221. Provides the student with the practical experience necessary to identify commonly seen disabilities, aspects of health and wellness, evaluation/assessment techniques, and methods of treatment for the pediatric population from diverse backgrounds in collaboration with intra-professional and inter-professional team members.

OTA 216

PHYSICAL DISABILITIES NEURO-RETRAINING

3 CR. (2L/1.5 LBV)

PRQ: OTA 121. Provides skills necessary to utilize the occupational therapy treatment planning process, including age-appropriate assessments, treatment interventions and discharge planning within a client-centered and inter-professional context.

OTA 217

OCCUPATIONAL THERAPY REHABILITATION TECHNIQUES

2 CR. (3 LBV)

PRQ: OTA 121, OTA 105. Examines and demonstrates various treatment interventions and techniques based on aspects of health and wellness and physical/cognitive/psychosocial occupational disruption. The course focuses on adaptive equipment, assistive devices, areas of occupation and specialized physical disability assessments.

OTA 218

**OCCUPATIONAL THERAPY APPLICATION TO ADULT
PHYSICAL DISABILITIES**

3 CR. (1L/3 LBV)

PRQ: OTA 121. Provides students with the ability to identify commonly seen medical and orthopedic diseases and disabilities, aspects of health and wellness, and areas of occupational disruption. Students will learn treatment interventions within appropriate frames of reference through a variety of methodologies and will explore aspects of intervention including, but not limited to, splinting, transfers, positioning and communication techniques.

OTA 221

**PEDIATRIC CONCERNS, DISEASES, DISABILITIES, AND
TREATMENT**

3 CR. (2L/1.5 LBV)

PRQ: OTA 121 and OTA 122. Explains the impact of environment, culture and community on the child. Focuses on an ever-changing occupational status through the influences of performance skills. Provides the skills necessary to identify commonly seen diseases and disabilities and treatment techniques used in pediatrics to promote health and wellness. Identifies occupational therapy evaluation/assessment techniques and methods of intervention within the context and environment of health care and the community.

OTA 235

PROFESSIONAL MANAGEMENT FOR THE OTA

2 CR. (2L)

PRQ: Admission into the OTA program. Provides the student with the basic management skills needed as an occupational therapy assistant as well as provides an understanding of effective job seeking skills, the role of the OTA in research, professional responsibilities and lifelong learning.

OTA 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

OTA 278

OTA SEMINAR

1 CR. (1.5 LBV)

PRQ: OTA 280 or OTA 281. Provides the opportunity for discussion of Level II experiences and how to apply logical thinking, critical analysis and clinical reasoning strategies to future scenarios. Students will have discussions on continuing lifelong learning opportunities and professional responsibilities.

OTA 280

FIELDWORK IN OCCUPATIONAL THERAPY I

7 CR. (21 INT)

PRQ: All OTA courses except OTA 278 and OTA 281. Provides an 8-week, full-time (or an equal amount of hours completed through part-time rotation), supervised fieldwork to develop professional behaviors consistent with the profession's standards and ethics and apply previously learned academic knowledge as an occupational therapy team member. Students will gain experience in the application of occupational therapy treatment process from admission to discharge for clients from a variety of sociocultural backgrounds and age levels in the practice area of physical disabilities to promote health and wellness.

OTA 281

FIELDWORK IN OCCUPATIONAL THERAPY II

7 CR. (21 INT)

PRQ: All OTA courses except OTA 278 and OTA 280. Provides an 8-week, full-time (or an equal amount of hours completed through part-time rotation), supervised fieldwork to develop professional behaviors consistent with the profession's standards and ethics and apply previously learned academic knowledge as an occupational therapy team member. Students will gain experience in the application of occupational therapy treatment process from admission to discharge for clients from a variety of sociocultural backgrounds and age levels in the practice area of behavioral/mental health, sensorimotor and/or developmental disabilities as well as promoting health and wellness.

OTA 285

INDEPENDENT STUDY

1-6 CR. (2-12 IND)

Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

Outdoor Studies

OUT 112

MOUNTAIN ORIENTATION

2 CR. (4 LBA)

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.

Paralegal

PAR 115

INTRODUCTION TO LAW

3 CR. (3L)

PRQ: All developmental (sub-100 level) English/reading courses completed, or approval of department chair and instructor. CORQ: ENG 121 or approval of department chair or instructor. 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 CR. (3L)

PRQ: ENG 121 and PAR 115 or approval of department chair and instructor. Focuses on tort law, including negligence, intentional torts and strict liability, with an emphasis on personal injury litigation.

PAR 117

FAMILY LAW

3 CR. (3L)

PRQ: ENG 121 or approval of department chair and instructor. CORQ: PAR 115 or approval of department chair and instructor. Emphasizes domestic law, common property, dissolutions, adoptions, legal separation and other family law issues.

PAR 118

CONTRACTS

3 CR. (3L)

PRQ: ENG 121, PAR 115, or approval of department chair and instructor. Examines the basic principles of contract law.

PAR 125

PROPERTY LAW

3 CR. (3L)

PRQ: ENG 121, PAR 115, or approval of department chair and instructor. Focuses on real estate law, ownership, sale, leasing, financing and government regulation of land.

PAR 201

CIVIL LITIGATION

3 CR. (3L)

PRQ: ENG 122, PAR 115, or approval of department chair and instructor. Focuses on an intensive study of the legal process including the Federal and Colorado Rules of Civil Procedure.

PAR 208

PROBATE AND ESTATES

3 CR. (3L)

PRQ: ENG 122, PAR 115, or approval of department chair and instructor. Provides an understanding of the creation and administration of an estate, including wills and trusts and the probate process.

PAR 211

LEGAL RESEARCH

3 CR. (3L)

PRQ: ENG 121, PAR 115, or approval of department chair and instructor. Introduces the student to basic legal research tools, including statutes, digests, case law, citations, encyclopedias, dictionaries and online data bases.

PAR 212

LEGAL WRITING

3 CR. (3L)

PRQ: PAR 211 PAR 115, ENG 122 or approval of department chair and instructor. Enables the student to practice the content and conventions of legal writing.

PAR 280

INTERNSHIP

3 CR. (9 INT)

PRQ: Successful completion (C or higher) of at least 75% of Par-Prefixed courses or approval of department chair and instructor. 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.

****Petroleum Technology**

**PET 130

OIL AND GAS PRODUCTION I

3 CR. (3L)

Familiarizes the student with the duties and responsibilities of the oil and gas production technician. Specifically, students will be able to discuss the history of the oil market, concepts surrounding exploration and geology, fundamentals of drilling and well completion, and describe the operation of the equipment and systems used by the oil and gas production technician today.

**PET 230

OIL AND GAS PRODUCTION II

3 CR. (3L)

PRQ: PET 130. Familiarizes the student with the duties and responsibilities of the oil and gas production operations technician. Specifically, students will be able to discuss natural gas treatment, dehydration and compressions system and equipment, the produced water treatment and handling system and equipment, auxiliary systems and equipment, artificial lift and enhanced recovery techniques, pumping and transportation systems, safety, health and environmental considerations, basic concepts of refining and processing.

Pharmacy Technician

PHT 111

ORIENTATION TO PHARMACY

3 CR. (2L/1.5 LBV)

PRQ: Admissions into the Pharmacy program. 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 120

MEDICAL INSURANCE PROCEDURES

1 CR. (1.5 LBV)

PRQ: Admission to the PHT program. Provides a basic introduction to pharmacy reimbursement services. Defines and presents the processes involved in reimbursement for pharmacy products and services. Examines the healthcare insurance industry along with an overview of the three core functions of pharmacy reimbursement services – patient admission, verification of insurance and billing procedures. Integrates an actual pharmacy operation application and allows students hands-on technical experience.

PHT 207

DRUG CLASSIFICATION

3 CR. (3L)

PRQ: Admission to the PHT program. Emphasizes the drug classes, such as over-the-counter vs. prescription drugs, scheduled drugs, and the laws pertaining to each. Includes the drug development process, the different pregnancy classifications and the degree of potential harm for each class, and the commonly used drugs that can be addictive, abused and potentially lethal. Examines dosage forms, routes of administration, selection and recommendation of OTC drugs and natural products, and memorize trade and generic names.

PHT 235

PHARMACEUTICAL CALCULATIONS AND COMPOUNDING TECHNIQUES

4 CR. (4L)

PRQ: Admission to the PHT program. Develops the skills necessary for performing calculations in pharmacy practice and the compounding of sterile and nonsterile 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 is 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.

PHT 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PHT 280

INTERNSHIP

3 CR. (6 INT)

PRQ: PHT 105. 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.

Philosophy

PHI 111

INTRODUCTION TO PHILOSOPHY: GT-AH3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces significant human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future and religion. This course is one of the statewide Guaranteed Transfer courses, GT-AH3.

PHI 112

ETHICS: GT-AH3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Examines human life, experience and thought in order to discover and develop the principles and values for pursuing a more fulfilled existence. Theories designed to justify ethical judgments are applied to a selection of contemporary personal and social issues. This course is one of the statewide Guaranteed Transfer courses, GT-AH3.

PHI 113

LOGIC: GT-AH3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking. Emphasizes the development of decision-making and problem-solving. This course is one of the statewide Guaranteed Transfer courses, GT-AH3.

PHI 114

COMPARATIVE RELIGIONS: GT-AH3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces students to the major world religions from both the Eastern and Western world such as Hinduism, Buddhism, Confucianism, Taoism, Zoroastrianism, Judaism, Christianity, Islam, Bahá'í and influential preliterate traditions. Utilizes religious studies methods (historical, sociological, legal, psychological and phenomenological) to understand the historical development of each religious tradition in terms of communities, cultural context and modern manifestations, paying particular attention to differences between sects, denominations, schools and factions within each tradition. Focus will include the examination of the charismatic leaders, prophets and narratives that inform the worldview of each tradition. This course is one of the statewide Guaranteed Transfer courses, GT-AH3.

PHI 115

WORLD RELIGIONS-WEST: GT-AH3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces students to religions of the Western world: Zoroastrianism, Judaism, Christianity, Islam, Bahá'í, and influential pre-literate traditions. Utilizes religious studies methods (historical, sociological, legal, psychological and phenomenological) to understand the historical development of each religious tradition in terms of communities, cultural context and modern manifestations, paying particular attention to differences between sects, denominations, schools and factions within each tradition. Focus will include the examination of the charismatic leaders, prophets and narratives that inform the worldview of each tradition. This course is one of the statewide Guaranteed Transfer courses, GT-AH3.

PHI 214

PHILOSOPHY OF RELIGION: GT-AH3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Focuses on the critical examination of the fundamental concepts, ideas and implications of religion. Includes the nature of God, the varieties of religious experience, argument concerning God's existence, the problem of evil, faith and reason, religion and human destiny, and the connection between religion and ethics. This course is one of the statewide Guaranteed Transfer courses, GT-AH3.

PHI 218

ENVIRONMENTAL ETHICS: GT-AH3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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. This course is one of the statewide Guaranteed Transfer courses, GT-AH3.

PHI 220

PHILOSOPHY OF-DEATH AND DYING: GT-AH3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Explores the major philosophical questions surrounding death and dying – the metaphysical arguments for and against the existence of a soul and life after bodily death; the epistemological assessment of arguments for the soul and life after death; the ethical justifications taken on positions such as rational suicide and physician assisted suicide; as well as a focus on philosophy's existentialist contribution to questions about the meaning of life and the meaning of death. This course is one of the statewide Guaranteed Transfer courses. GT-AH3.

PHI 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Physical Education

PED 100

FITNESS CONCEPTS

1 CR. (2 LBA)

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 101

CONDITIONING LAB

1 CR. (2 LBA)

Offers an independent, self-paced format of conditioning exercises to meet individual needs. Emphasizes the value of lifetime fitness and its contribution to achieving personal health and wellness. Students utilize cardiorespiratory, muscular strength and endurance exercises to promote positive changes in health-related fitness components.

PED 102

WEIGHT TRAINING I

1 CR. (2 LBA)

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. 30 contact hours.

PED 104

CROSS TRAINING

1 CR. (2 LBA)

Introduces basic cross-training techniques designed to improve physical work capacity of an individual. Enables the student to gain an understanding of the basic principles of cross training, the effects cross training has upon the body's energy systems and muscles, program design and terminology.

PED 105

FITNESS CIRCUIT TRAINING

1 CR. (2 LBA)

Examines a number of different circuit training programs. Emphasizes the development of cardiovascular endurance, muscular strength and endurance, flexibility and a healthy body composition to meet individual needs.

PED 106

FIRE ACADEMY FITNESS

2.5 CR. (5 LBA)

Focuses on Basic Fire Academy students who are interested in improving total fitness. Includes an individual fitness evaluation, computerized analysis of results and a prescribed exercise program. Emphasizes improving cardiovascular fitness, muscular strength, muscular endurance and addressing any fitness deficiencies revealed in the initial testing.

PED 110

FITNESS CENTER ACTIVITY I

1 CR. (2 LBA)

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 are incorporated to elicit improvements in fitness.

PED 111

FITNESS CENTER ACTIVITY II

1 CR. (2 LBA)

PRQ: 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. Weight machines, stationary bicycles and computerized cardiovascular equipment are used to elicit improvements in fitness.

PED 112

FITNESS CENTER ACTIVITY III

1 CR. (2 LBA)

PRQ: PED 110, 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 is aerobic circuit training. The circuit training is supplemented with additional work on 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 CR. (2 LBA)

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 122

STEP AEROBICS

1 CR. (2 LBA)

Introduces basic step aerobics and exercise techniques to improve physical fitness. Emphasizes the basic principles of step aerobics including the effects upon the cardio-respiratory system and skeletal muscles, various step patterns and choreography.

PED 128

INDOOR STATIONARY GROUP CYCLING

1 CR. (2 LBA)

Focuses on improving cardiovascular fitness, burning calories and enhancing muscular endurance. Designed specifically to enhance aerobic work capacity and improve pedaling skills. Each exercise session is choreographed to music and includes a complete workout with a warm-up, endurance and cool-down component.

PED 129

ZUMBA

1 CR. (2 LBA)

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 AND TONING

1 CR. (2 LBA)

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 CR. (2 LBA)

Focuses on Pilates mat work 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 143

YOGA I

1 CR. (2 LBA)

Offers a guided instruction in yoga. Students practice yoga according to their individual fitness levels and abilities. Emphasizes enhancing general health and well-being through the performance of yoga strength, flexibility, balance and relaxation techniques and exercises.

PED 144

YOGA II

1 CR. (2 LBA)

PRQ: PED 143. Continues to build on the concepts of basic yoga. Increases awareness of yoga including physical and mental benefits.

PED 151

WALKING AND JOGGING

1 CR. (2 LBA)

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 CR. (2 LBA)

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 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PED 202

GOLF I

1 CR. (2 LBA)

Introduces a basic course in golf designed for those who have had little or no formal instruction or for those with some experience who are interested in improving some aspect of their game. Includes driving range, putting green and on-course play.

PED 208

TENNIS I

1 CR. (2 LBA)

Introduces tennis and focuses on improving the skill level of the student. Emphasizes the elements of tennis including the rules of the game, groundstrokes, serving, the various shots, and singles and doubles play and strategies.

PED 211

BOWLING

1 CR. (2 LBA)

Introduces bowling fundamentals to improve the student's skill level. The primary emphasis is on teaching the student the elements of bowling, rules and regulations, footwork, courtesies, delivery, selection of ball, scoring, and team and individual competition.

PED 230

VOLLEYBALL 1

1 CR. (2 LBA)

Introduces and improves student skill level in volleyball. The primary emphasis is on teaching the student the elements of volleyball including rules, offensive and defensive play, passing, serving, setting, attacking, team play and game strategies.

PED 234

BASKETBALL

1 CR. (2 LBA)

Introduces basketball and focuses on improving student skill level. Emphasizes teaching the student the elements of basketball rules, offensive and defensive footwork, shooting, passing, dribbling, rebounding, team play and game strategies.

PED 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Physical Therapist Assistant

PTA 110

BASIC PATIENT CARE IN PHYSICAL THERAPY

5 CR. (2L/4.5 LBV)

PRQ: Admission to the Physical Therapist Assistant program or department chair approval. Examines the basic patient care skills for the healthcare practitioner. Enables the student to gain an understanding and demonstrate skills that include positioning, body mechanics, transfers, range of motion, palpation, vital signs, aseptic techniques, bandaging, intermittent venous compression, medical terminology, activities of daily living, wheelchair management, architectural barriers and gait training.

PTA 115

PRINCIPLES AND PRACTICES OF PHYSICAL THERAPY

2 CR. (2L)

PRQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. Explores the history of the profession including definition, development and areas of practice. The role of the APTA, the physical therapist assistant and the relationship between the physical therapist, PTA and other health care professionals are investigated. Includes current issues and trends including professionalism, ethics, quality assurance, communications and reimbursement issues such as Medicare, Medicaid, workers' compensation and commercial insurance.

PTA 120

MODALITIES IN PHYSICAL THERAPY

5 CR. (2L/4.5 LBV)

PRQ: PTA: 110. Examines theory and principles of physical therapy modalities. Course includes therapeutic heat and cold, traction, massage and hydrotherapy.

PTA 124

REHAB PRINCIPLES OF MEDICAL I

2 CR. (2L)

PRQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. Investigates the impairments, functional limitations and disabilities resulting from a variety of neuromusculoskeletal conditions. The medical management including pharmacology and its impact on physical therapy rehab principles are discussed. Evidence-based practice for musculoskeletal and neurological system diagnosis will be reviewed as they relate to physical therapy rehab.

PTA 131

PROFESSIONAL COMMUNICATIONS I

1 CR. (1L)

PRQ: Program admission. Introduces students to oral and written professional communication in their field. Develops skills in verbal and nonverbal communication, conducting self-critiques and peer reviews, research of professional literature, medical documentation and professional presentations.

PTA 134

REHAB PRINCIPLES OF MEDICAL II

2 CR. (2L)

PRQ: Successful completion of CCR 092 or qualifying placement scores or exemptions. Investigates the impairments, functional limitations, disabilities and medical management including pharmacology of a variety of traumatic, immunological, inflammatory and degenerative processes and their impact on physical therapy rehab principles. Evidence-based practice for cardiovascular, respiratory, endocrine and chronic pain diagnosis will be reviewed as they relate to physical therapy rehab.

PTA 135

PRINCIPLES OF ELECTRICAL STIMULATION

2 CR. (1L/1.5 LBV)

PRQ: Program admission. Investigates the principles and application of electrical stimulation (ES) modalities currently used in physical therapy practice. Enables the student to understand the electrochemical and physiological effects of electrical stimulation and identify the various forms and applications of ES.

PTA 140

CLINICAL KINESIOLOGY

5 CR. (5L)

PRQ: HPR 117, program admission. Focuses on the science of human motion, theories of biomechanics and muscle/joint structure and function. Emphasizes basic principles of therapeutic exercise and their application to specific body regions. A laboratory experience that includes the application of kinesiology and exercise principles is integrated in the learning experience.

PTA 141

PROFESSIONAL COMMUNICATIONS II

1 CR. (1L)

PRQ: PTA 131. Builds on Professional Communications I and develops skills in writing professional documents to patients and other healthcare professionals, participating effectively in meetings, and medical documentation skills.

PTA 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PTA 205

PSYCHOSOCIAL ISSUES IN HEALTH CARE

2 CR. (2L)

PRQ: Program admission. Explores the psychosocial aspects of the patient/client and health care practitioner. Investigates recognition of and adjustment for psychological, sociological, educational, cultural, economic and political concerns on the delivery of health care services. Communication skills and social and advocacy responsibilities of the health care practitioner are discussed. Enables the student to develop the skills to meet expectations and needs of members of society receiving health care services.

PTA 230

ORTHOPEDIC ASSESSMENT AND MANAGEMENT TECHNIQUES

5 CR. (2L/4.5 LBV)

PRQ: PTA 120, PTA 140. Examines the theory and principles and practices of orthopedic conditions. Includes an understanding of assessment and management techniques pertaining to orthopedic conditions, goniometry, manual muscle testing, gait analysis and posture analysis.

PTA 240

NEUROLOGIC ASSESSMENT AND MANAGEMENT TECHNIQUES

5 CR. (2L/4.5 LBV)

PRQ: PTA 120 and PTA 140 or department chair approval. Examines the theory and principles of physical therapy with an introduction to assessment, management techniques and advanced physical therapy procedures as they relate to neurologic, cardiac and pulmonary conditions.

PTA 251

PROFESSIONAL COMMUNICATIONS III

1 CR. (1L)

PRQ: 141. Promotes the concepts from Professional Communications II and further develops written and oral communication skills in the professional arena through correct documentation of patient progress based on observations, dictating progress notes, development of resume, job interview skills, portfolios and an awareness of the national PTA exam.

PTA 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PTA 278

PTA SEMINAR

2 CR. (2L)

PRQ: PTA 230, PTA 280 (student should be in final semester of degree). Provides a summary of all coursework, internships and prepares the student for transition into the workforce as an entry level PTA. It includes a comprehensive review and mock exam in preparation for the national PTA exam, employment benefits, licensing, state practice act review, professional development, employment opportunities and community service.

PTA 280

PTA INTERNSHIP I

4 CR. (12 INT)

PRQ: PTA 120. Focuses on initial clinical exposure providing hands on patient practicum skills and techniques. Includes application of basic patient care skills including transfers, range of motion, modalities, bandaging, aseptic techniques and gait training. Students demonstrate professional behavior and communication principles appropriate in the physical therapy setting. A designated clinical instructor in an acute care, geriatric or outpatient setting will provide supervision.

PTA 281

PTA INTERNSHIP II

5 CR. (15 INT)

PRQ: Successful completion of all previous PTA curriculum or permission of program director. Focuses on an intermediate clinical experience providing hands-on patient practicum skills and techniques. Includes continued application of physical therapy procedures of Internship I with the addition of therapeutic exercise, goniometry, manual muscle testing and motor learning techniques. Students demonstrate professional behavior and communication principles appropriate in the physical therapy setting. A designated clinical instructor in an acute care, rehabilitation, outpatient, geriatric or home health setting provides supervision. During the internship, the student presents an in-service on a physical therapy-related topic.

PTA 282

PTA INTERNSHIP III

5 CR. (15 INT)

PRQ: Successful completion of all previous PTA curriculum or permission of program director. Incorporates advanced clinical experience providing hands on patient practicum skills and techniques. Students will refine all physical therapy skills in preparation to enter the field as an entry-level physical therapist assistant. This final experience includes independent practice with an assigned caseload under the on-site supervision of a clinical instructor. The student will present an in-service on a physical therapy-related topic.

Physics

PHY 105

CONCEPTUAL PHYSICS WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: CCR 092. Focuses on mechanics, heat, properties of matter, electricity and magnetism, light and modern physics. Incorporates laboratory experience. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

PHY 107

ENERGY SCIENCE & TECHNOLOGY WITH LAB: GT-SC1

4 CR. (3L/2LBA)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of MAT 050 or MAT 055 with a grade of S/C or better. Explores the science of energy and energy technologies, with a focus on renewable energy resources and clean technologies. It provides a background in the physics of energy, energy transfer and the current state of technology. Students will evaluate the future utilization of renewable technologies. Activities may include investigating conservation of energy, mechanical, electrical, heat and fluid power systems; energy transfer and loss; understanding energy audits; testing solar collectors and wind generators; and investigating hydrogen fuel cells. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

PHY 111

PHYSICS: ALGEBRA-BASED I WITH LAB: GT-SC1

5 CR. (4L/2 LBA)

PRQ: CCR 092, MAT 055. Explores the physical world 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. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

PHY 112

PHYSICS: ALGEBRA-BASED II WITH LAB: GT-SC1

5 CR. (4L/2 LBA)

PRQ: CCR 092, MAT 055. Expands upon PHY 111 and explores sound waves, electric fields, electric circuits, magnetic fields, light, optics and modern physics. Explores the concepts and theories presented in class through demonstrations and hands-on experiments. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

PHY 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PHY 211

PHYSICS: CALCULUS BASED I WITH LAB: GT-SC1

5 CR. (4L/2 LBA)

PRQ: MAT 201, ENG 121. Explores the physical world through reasoning, mathematics and experimentation. Covers kinematics, force, gravity, energy, momentum, torque, rotational dynamics and fluids, and may include thermodynamics. 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. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

PHY 212

PHYSICS: CALCULUS-BASED II WITH LAB: GT-SC1

5 CR. (4L/2 LBA)

PRQ: MAT 201, ENG 121. Expands upon PHY 211 and examines waves, electric fields, electric circuits, magnetic fields, light and optics, and modern physics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments. This course is one of the statewide Guaranteed Transfer courses, GT-SC1.

PHY 213

PHYSICS III: CALCULUS BASED MODERN PHYSICS

3 CR. (3L)

PRQ: MAT 201, ENG 121. Expands upon PHY 212 and explores 20th-century advances in physics. Topics may include special and general relativity, quantum theory, atomic physics, solid state physics, nuclear physics, semiconductor physics and cosmology.

PHY 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Political Science

POS 105

INTRODUCTION TO POLITICAL SCIENCE: GT-SS1

3 CR. (3L)

PRQ: CCR 092. Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and nondemocratic governments and processes, and international relations. This course is one of the statewide Guaranteed Transfer courses, GT-SS1.

POS 111

AMERICAN GOVERNMENT: GT-SS1

3 CR. (3L)

PRQ: CCR 092. Includes the background of the US Constitution, the philosophy of American government, general principles of the Constitution, federalism and civil liberties. Examines public opinion and citizen participation, political parties, interest groups and the electoral process, and the structure and functions of the national government. This course is one of the statewide Guaranteed Transfer courses, GT-SS1.

POS 125

AMERICAN STATE AND LOCAL GOVERNMENT: GT-SS1

3 CR. (3L)

PRQ: CCR 092. Emphasizes the structure and function of state, county and municipal governments, including their relations with each other and with national government. Includes a study of Colorado government and politics. This course is one of the statewide Guaranteed Transfer courses, GT-SS1.

POS 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

POS 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

****Printing Technology**

**PRT 101

INTRODUCTION TO PRINTING TECHNOLOGY

1 CR. (1L)

Reviews the development of graphic communications, past and present. It includes an overview of the history of printing and publishing, processes, terminology, materials and the importance of printing in contemporary society, and safety issues in the printing lab.

**PRT 112

BEGINNING OFFSET PRESS

3 CR. (2L/1.5 LBV)

Introduces fundamental understanding of the offset presses, including delivery, printing head and operation. Covers using the presses with an ink and water fountain solution for a simple job.

**PRT 113

INTERMEDIATE OFFSET PRESS

3 CR. (1L/3 LBV)

Introduces the student to the T-Head presses and the quick-copy system, while presenting more detailed information on small presses. The course also instructs students on pressure settings and adjustments, registration techniques and multicolor registering for print jobs.

**PRT 114

PAPER MANAGEMENT AND ESTIMATING

3 CR. (3L)

Introduces the different facets of paper management and estimating while students prepare and produce small production jobs. This course also teaches students how to estimate paper, press and production times.

****Process Technology**

PRO 100

INTRODUCTION TO PROCESS TECHNOLOGY

4 CR. (4L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Provides an overview or introduction into the field of process operations within the process industry. The course will introduce the roles and responsibilities of process technicians, the environment in which they work, and the equipment and systems in which they operate.

**PRO 110

SAFETY, HEALTH AND ENVIRONMENT

3 CR. (3L)

Provides an introduction to the field of safety, health and environmental concerns within the process industry. Within this course, you will be introduced to various types of plant hazards, safety and environmental systems and equipment, and the regulations under which processing plants are governed.

Psychiatric Technician

PTE 110

INTRO TO PSYCHIATRIC CARE

3 CR. (3L)

PRQ: Admission into the Psychiatric Technician program
CORQ: NUR 109, NUR 112. Explores basic principles of psychiatric care. Through the study of therapeutic communication, human development, behavior assessment and documentation, the student will develop and apply interpersonal and technical skills in preparation to work with clients in psychiatric care settings.

PTE 116

THEORETICAL CONCEPTS OF PSYCHIATRIC CARE I

2 CR. (2L)

PRQ: Admission into the Psychiatric Technician program, PTE 110. CORQ: PTE 170. Explores basic etiology, symptoms of, and interventions for, common psychiatric disorders. Builds on prior knowledge. Provides opportunities to recognize and intervene with clients experiencing typical psychiatric problems.

PTE 117

THEORETICAL CONCEPTS OF PSYCHIATRIC CARE II

2 CR. (2L)

PRQ: Admission into the Psychiatric Technician program, PTE 116, PTE 170. CORQ: PTE 171. Explores psychiatric problems common to four (4) special populations: children/adolescents, developmentally disabled individuals, aging persons and forensic clients. The student will learn how to recognize and intervene with problems common to these four groups.

PTE 118

PSYCHIATRIC MANAGEMENT PRINCIPLES

1 CR. (1L)

PRQ: Admission into the Psychiatric Technician program, PTE 117, PTE 171. CORQ: PTE 172. Capstone: Explores principles of psychiatric unit management and professional behaviors in psychiatric care. Self-care issues and job-seeking skills are also discussed.

PTE 170

CLINICAL CONCEPTS OF PSYCHIATRIC CARE I

3 CR. (4.5 LBV)

PRQ: Admission into the Psychiatric Technician program, PTE 110: CORQ: PTE 116. Provides clinical application of theory and principles presented in PTE 116 through supervised clinical practice in a psychiatric care setting.

PTE 171

CLINICAL CONCEPTS OF PSYCHIATRIC CARE II

3 CR. (4.5 LBV)

PRQ: Admission into the Psychiatric Technician program, PTE 116, PTE 170, or permission of instructor. CORQ: PTE 117. Provides clinical application of theory and principles presented in PTE 117 through supervised clinical practice in a psychiatric care setting.

PTE 172

PSYCHIATRIC MANAGEMENT CLINICAL

1 CR. (1.5 LBV)

PRQ: Admission into the Psychiatric Technician program, PTE 117, PTE 171. CORQ: PTE 118. Synthesizes knowledge from prerequisite courses and provides clinical application of theory presented in PTE 118.

PTE 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Psychology

PSY 100

PSYCHOLOGY OF WORKPLACE RELATIONSHIPS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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: GT-SS3

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 102

GENERAL PSYCHOLOGY II: GT-SS3

3 CR. (3L)

PRQ: CCR 092. Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, lifespan development and social psychology. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 107

WORKGROUP PSYCHOLOGY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces the psychology of workgroups in the modern workplace. Emphasizes team dynamics, social diversity issues, team building, interpersonal communication skills, goal setting, time and resource management, and consensus decision making.

PSY 110

CAREER DEVELOPMENT

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Assists students in recognizing their career potential, and provides tools for making realistic decisions concerning educational and occupational objectives.

PSY 117

PARENTING

1 CR. (1L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Focuses on effective techniques for working with children with emphasis on setting expectations, consideration of individual differences, satisfactory communication and effective parent-child relationships.

PSY 175-176

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PSY 200

RESEARCH METHODOLOGY

4 CR. (4L)

PRQ: Successful completion of PSY 101 or PSY 102. Introduces research methods and designs including correlational studies, experimental designs and quasi-experimental designs. Additional topics include evaluations of scientific research, data analysis, report writing and research ethics.

PSY 204

RELATIONSHIPS: CHALLENGES AND CHOICES

1 CR. (1L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Enables the student to preserve and enhance couple relationships by understanding the role of gender differences, conflict patterns, communication skills, problem solving, meaning of commitment, fun and friendship.

PSY 205

PSYCHOLOGY OF GENDER: GT-SS3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Examines gender comparisons in work, courtship, family life and sexual behavior throughout the lifespan. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 207

INTRO TO FORENSIC PSYCHOLOGY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduction to Forensic Psychology is a course in an overview of Forensic Psychology. As such it explores both current research and practice in five areas. These areas are police psychology, criminal psychology, victimology, correctional psychology and the interface of psychology and the courts. The course facilitates an understanding of the numerous careers related to forensic psychology, how to prepare for them and current research and practice in each of the five broad areas of forensic psychology.

PSY 217

HUMAN SEXUALITY: GT-SS3

3 CR. (3L)

PRQ: CCR 092. Surveys physiological, psychological and psychosocial aspects of human sexuality. Topics include relationships, sexual identity and sexual health. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 226

SOCIAL PSYCHOLOGY: GT-SS3

3 CR. (3L)

PRQ: Successful completion of PSY 101, PSY 102, or SOC 101, SOC 102, or department chair approval. Focuses on the behavior of humans in social settings, including attitudes, aggression, conformity, cooperation and competition, prejudice and interpersonal attraction. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 227

PSYCHOLOGY OF DEATH AND DYING: GT-SS3

3 CR. (3L)

PRQ: CCR 092. Examines the philosophies of life and death, emphasizing dying, death, mourning and the consideration of one's own death. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 229

INTRODUCTION TO ADDICTIVE BEHAVIOR

2 CR. (2L)

PRQ: ENG 121. Focuses on addictive behavior and its effect on individuals, families and society.

PSY 231

POSITIVE PSYCHOLOGY: GT-SS3

3 CR. (3L)

PRQ: CCR 092. Focuses on human strengths rather than the traditional view of psychology that tends to focus on the worst of human nature. This course is designed to explore strengths-based research, concepts of happiness, helpfulness and resiliency. The research and theories about human nature will go beyond simply not being mentally ill as a form of mental health, which will include optimism, post-traumatic growth, and how to increase emotional, psychological and social functioning. Overall, this course will be focused on understanding one's own sense of life satisfaction and how to further improve well-being. This course is approved as part of the Colorado statewide Guaranteed transfer curriculum: GT: SS3.

PSY 235

HUMAN GROWTH AND DEVELOPMENT: GT-SS3

3 CR. (3L)

PRQ: CCR 092. Examines human development from conception through death, emphasizing physical, cognitive, emotional and psychosocial factors. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 237

CHILD AND ADOLESCENT PSYCHOLOGY

3 CR. (3L)

PRQ: CCR 092. Explores human development from conception through adolescence, emphasizing physical cognitive, emotional and psychosocial factors.

PSY 238

CHILD DEVELOPMENT: GT-SS3

3 CR. (3L)

PRQ: CCR 092. Focuses on the growth and development of the individual from conception through childhood, emphasizing physical, cognitive, emotional and psychosocial factors. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 239

ADOLESCENT AND ADULT PSYCHOLOGY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Examines growth and development of the individual from adolescence to death, emphasizing physical, cognitive, emotional and psychosocial factors.

PSY 240

HEALTH PSYCHOLOGY: GT-SS3

3 CR. (3L)

PRQ: CCR 092. Students will learn an overview of the scientific study of attitudes, behaviors and personality variables related to health, illness and bodily systems. Emphasis is on the interaction of biological, psychological and social factors that cause illness and influence its treatment and prevention. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 245

EDUCATIONAL PSYCHOLOGY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Focuses on the relationships between theory, research and practice in the areas of learning, child development, motivation and educational assessment.

PSY 247

CHILD ABUSE AND NEGLECT

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Examines the causes and effects of physical, sexual and psychological abuse and neglect. Intervention and prevention strategies are emphasized.

PSY 249

ABNORMAL PSYCHOLOGY: GT-SS3

3 CR. (3L)

PRQ: CCR 092. CORQ: PSY 101 or department chair approval. Examines abnormal behavior and its classification, causes, treatment and prevention. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 250

DYNAMICS OF RACISM AND PREJUDICE

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Focuses on early race relations in the United States, the development of prejudicial attitudes and the social impact, and strategies for positive change.

PSY 265

PSYCHOLOGY OF PERSONALITY: GT-SS3

3 CR. (3L)

PRQ: CCR 092. Examines the structure, function and development of personality. Investigates the major contemporary theories of personality. Covers psychodynamic, behavioral, cognitive-social learning, humanistic, trait and, optionally, neurobiological, existential and/or Eastern perspectives. The underlying assumptions and research support for these theories are appraised. Enables the student to gain an appreciation of the value of alternative theoretical approaches to this subfield of psychology. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 267

STRESS REDUCTION WITH BIOFEEDBACK

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Focuses on the biological and psychological basis of stress and the detrimental effects it may have on health. Emphasizes learning and applying stress reduction skills that are monitored with simple biofeedback instruments.

PSY 268

ORGANIZATIONAL PSYCHOLOGY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Provides a comprehensive study of psychological principles and theories as applied to organizational behavior. Topics include motivation, job satisfaction, conflict supervision, human relations and stress management.

PSY 269

PSYCHOLOGY OF LEADERSHIP

3 CR. (3L)

PRQ: Successful completion of PSY 101 or PSY 102. Studies and applies the theories and techniques of leadership and group processes. In addition, introduces leadership skills and experiences with applications in group and community settings.

PSY 275-276

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Public Service

PSV 230

INTRODUCTION TO CIVIC LEADERSHIP

3 CR. (3L)

Enables the student to develop a critical understanding of public leadership through the study of pertinent models, theories and research.

Radio and Television

RTV 100

INTRODUCTION TO ELECTRONIC MEDIA

3 CR. (3L)

Focuses on the study of the market demands involving national, local and international uses of electronic media.

RTV 102

BEGINNING TELEVISION

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Focuses on principles and techniques of television production in theory and the approach of studio and production. Emphasizes producing television programs, beginning with a concept through script to actual studio production, pre-production and post-production.

RTV 103

WRITING FOR TV AND RADIO

3 CR. (3L)

Explores writing techniques for television and radio emphasizing professional techniques, format and style.

RTV 108

PRINCIPLES OF AUDIO

3 CR. (1L/3 LBV)

PRQ: RTV 102. 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 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

RTV 182

INTERNSHIP RADIO STA/AUDIO PRODUCTION

4 CR. (12 INT)

PRQ: Department chair approval. Provides experience in a commercial radio station or an allied industry.

RTV 183

INTERNSHIP TV STUDIO/VIDEO PRODUCTION CO.

4 CR. (12 INT)

PRQ: Department chair approval. Provides experience in a commercial television station or an allied industry.

RTV 208

BASIC VIDEO PRODUCTION

3 CR. (2L/1.5 LBV)

PRQ: RTV 102. Introduces basic videotape production and editing on linear and nonlinear 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 nonlinear editors.

RTV 212

ADVANCED TELEVISION PRODUCTION

3 CR. (2L/1.5 LBV)

PRQ: RTV 208. 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 multicamera production. Examines use of effects and chroming. Includes laws and ethics governing the television broadcast industry and Institutional Television.

RTV 217

ADVANCED TELEVISION STUDIO PRODUCTION

3 CR. (4.5 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or department chair approval. Focuses on principles and techniques of television production and direction in a laboratory setting using commercial television broadcast equipment for broadcast and institutional video productions.

RTV 269

VIDEO FIELD PRODUCTION

3 CR. (4.5 LBV)

PRQ: Department chair approval. Prepares students for production of professional-quality video programming. Students will be afforded the opportunity to attain proficiency in single-camera remote videography, as well as post-production editing and recording engineering.

RTV 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Radiologic Technology

RTE 101

INTRODUCTION TO RADIOGRAPHY

2 CR. (2L)

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 111

RADIOGRAPHIC PATIENT CARE

2 CR. (2L)

PRQ: RTE 101. CORQ: RTE 121, RTE 131, RTE 141, RTE 181. 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

RADIOLOGIC PROCEDURES I

3 CR. (2L/1.5 LBV)

PRQ: Program admission, RTE 101. 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

RADIOLOGIC PROCEDURES II

3 CR. (2L/1.5 LBV)

PRQ: RTE 121. 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 131

RADIOGRAPHIC PATHOLOGY AND IMAGE EVALUATION I

1.5 CR. (1.5L)

PRQ: RTE 101. Provides a detailed anatomic discussion of the respiratory, digestive, genitourinary systems and related medical terminology. The course will also cover the details of bony anatomy including bone structure, pathology and arthrology.

RTE 132

RADIOGRAPHIC PATHOLOGY AND IMAGE EVALUATION II

1.5 CR. (1.5L)

PRQ: RTE 131. Provides a detailed anatomic/pathologic discussion of the spine, circulatory system, nervous system and skull and related medical terminology.

RTE 141

RADIOGRAPHIC EQUIPMENT/IMAGING I

3 CR. (3L)

PRQ: Program admission, RTE 101. 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/IMAGING II

3 CR. (3L)

PRQ: RTE 141. Expands information covered in RTE 141 and provides in depth knowledge of radiographic exposure and the factors that affect radiographic film quality and assurance.

RTE 181

RADIOGRAPHIC INTERNSHIP I

5 CR. (15 INT)

PRQ: Program admission, RTE 101. 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 CR. (15 INT)

PRQ: RTE 181. Introduces additional concepts and more complex radiographic procedures than those learned in Clinical Internship I.

RTE 183

RADIOGRAPHIC INTERNSHIP III

7 CR. (21 INT)

PRQ: RTE 182. Reinforces the basic concepts of Clinical Internship I and II.

RTE 221

ADVANCED MEDICAL IMAGING

3 CR. (3L)

PRQ: RTE 122. 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 CR. (2L)

PRQ: RTE 142. Provides the basic knowledge and understanding of the biologic effects of ionizing radiation and radiation protection and safety.

RTE 240

PRINCIPLES OF CT IMAGING

3 CR. (3L)

PRQ: Registered with the American Registry of Radiologic Technologies. Exploration of the history, physical principles and instrumentation involved in computed tomography (CT). CT image creation, processing and display will be examined from data acquisition through post-processing and archiving. Patient factors and other related elements affecting image quality will be explained, as well as artifact production and reduction. Radiation protection practices and quality control will also be explored.

RTE 255

MULTIPLANAR SECTIONAL IMAGING

2 CR. (2L)

PRQ: Radiologic Technology student or imaging professional or permission of instructor. Offers a course designed to increase knowledge in multiplanar/multimodality sectional anatomy for imaging professionals, radiologic technology students and other interested health care professionals. Correlative studies of line drawings, cadaverous photographs, MRI and CT images are thoroughly studied.

RTE 256

BONE DENSITOMETRY

2 CR. (2L)

Offers an in-depth study of bone densitometry equipment, scanning and interpretation that will prepare the student for the American Registry of Radiologic Technologist certification examination in bone densitometry.

RTE 261

Principles of MRI Imaging I

2 CR. (2L)

PRQ: AART registered. Introduces the fundamental principles of MRI to prepare the student to perform clinical MRI examinations of the human body with special consideration to image production, quality control, terminology, basic procedural steps and MRI equipment and safety.

RTE 262

MRI Procedures

2 CR. (3L)

PRQ: AART registered. In this course, students will be introduced to the procedures for imaging various anatomical structures utilizing MRI. Emphasis will be placed on the cranium and facial nerves, brain, spine, abdomen, pelvis, upper and lower extremity imaging protocol. The most common pathologies to be found during MRI scanning will also be presented. The normal anatomy will be compared to the abnormal findings. Special imaging techniques will be discussed to demonstrate the pathology.

RTE 263

Principles of MRI Imaging II

2 CR. (2L)

PRQ: AART registered. Expands on information covered in RTE 261 and provides in-depth knowledge of MRI pulse sequences, data manipulation, artifacts and quality control.

RTE 264

MRI Advanced Procedures

1 CR. (1L)

PRQ: AART registered. This course will introduce the most advanced imaging procedures and technical developments in MRI today. Emphasis will be placed on the heart and thorax, MRA of the head and neck, DWI, PWI, MRS, fMRI and breast imaging.

RTE 265

MRI Registry Review

2 CR. (2L)

PRQ: AART Registered. This course will prepare technologists interested in sitting for the Advanced Level Examination in MRI of the ARRT. Course emphasis will cover physical principles of image formation, data acquisition and processing, patient care and MRI safety, and imaging procedures.

RTE 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

RTE 281

RADIOGRAPHIC INTERNSHIP IV

8 CR. (24 INT)

PRQ: RTE 183. Introduces the student to the radiographic specialty areas of pediatrics, geriatrics, the outpatient clinic, as well as increasing proficiency in general radiography.

RTE 282

RADIOGRAPHIC INTERNSHIP V

8 CR. (24 INT)

PRQ: RTE 281 Introduces the student to the radiographic specialty areas of pediatrics, geriatrics, the outpatient clinic, portable and trauma radiography, as well as increasing proficiency in general radiography.

RTE 284

ADVANCED CLINICAL (SPECIALTY)

4 CR. (12 INT)

PRQ: Registered with the American Registry of Radiologic Technologists. Provides the student with supervised hands-on training in advanced field of medical imaging. Allows the student to gain the clinical experience necessary to work in the specified area of advanced practice.

RTE 286

ADVANCED CLINICAL SPECIALTY II

6 CR. (18 INT)

PRQ: Registered with the American Registry of Radiologic Technologists. Provides the student with supervised hands-on training in advanced field of medical imaging. Allows the student to gain the clinical experience necessary to work in the specified area of advanced practice.

RTE 289

CAPSTONE

3 CR. (3L)

PRQ: All core curriculum or permission of instructor. CORQ: RTE 282. Prepares the radiology technology student to effectively search for a job in radiography and sit for the American Registry of Radiologic Technologists examination.

RTE 291

MAMMOGRAPHY INTERNSHIP

3 CR. (9 INT)

PRQ: Registrant must be registered or registry eligible Radiologic Technologist and approval of department chair. CORQ: RTE 250 or instructor's permission. Provides clinical experience for demonstrating and documenting clinical competencies required by the American Registry of Radiologic Technologists for application for registry examination.

Reading

REA 075-077

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

REA 112

SPEED READING

2 CR. (2L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or instructor's approval. Improves reading comprehension and speed of reading for students who want to enhance skills for success in college or career environments.

REA 130

APPLIED AND TECHNICAL READING

2 CR. (2L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or instructor's approval. Focuses on the appropriate reading strategies to understand technical, vocational and academic texts, manuals, professional journals and pleasure materials; to complete a task in the workplace; and to comprehend a new process.

REA 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

REA 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Real Estate

REE 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

REE 201

REAL ESTATE BROKERS I

6 CR. (6L)

Enables the student, in conjunction with REE 202 - Real Estate Brokers II, to meet the educational requirements of the Colorado Real Estate Commission for a Colorado Real Estate Brokers' license. This course includes real estate law and practice, practical applications, and current legal issues.

REE 202

REAL ESTATE BROKERS II

6 CR. (6L)

Enables the student, in conjunction with REE 201 - Real Estate Brokers I, to meet the educational requirements of the Colorado Real Estate Commission for a Colorado Real Estate Brokers' license. This course includes Colorado contracts and regulations, closings, and recordkeeping and trust accounts.

REE 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Respiratory Care

RCA 105

INTRODUCTION TO RESPIRATORY CARE

1 CR. (1L)

PRQ: Admission to the Program. Introduces the principles and practices of Respiratory Therapy, to include the study of: the profession's history, current and future roles of the respiratory therapist, working cohesively with other professional organizations, quality care and evidence-based practice, patient safety, effective communication with patients, patient health records, principles of infection control, and implications of legal and ethical practices.

RCA 131

BASIC TECHNIQUES IN RESPIRATORY CARE

3 CR. (2L/1.5 LBV)

PRQ: Program admission. Introduces the principles and practices of Respiratory Therapy; to include the study and application of infection control, conducting a patient centered interview, performing a cardiopulmonary physical assessment, identifying normal and abnormal structures on a thoracic radiograph, and the application of medical gases to the cardiopulmonary patient.

RCA 132

BASIC TECHNIQUES IN RESPIRATORY CARE II

5 CR. (3L/3 LBV)

PRQ: RCA 131, RCA 155 or consent of instructor. Continues RCA 131 and focuses on airways, aerosol therapy, chest physiotherapy and positive pressure breathing.

RCA 151

CARDIOPULMONARY ANATOMY AND PHYSIOLOGY

3 CR. (3L)

PRQ: RCA 105, BIO 201 or consent of instructor. Focuses on the structure of the pulmonary and cardiovascular systems. Addresses independent functional relationships.

RCA 153

CARDIOPULMONARY DISEASE

3 CR. (4.5 LBV)

PRQ: Program admission, RCA 151, RCA 131, or consent of department chair. Discusses the clinical manifestations and assessment of cardiopulmonary disease in depth. The course utilizes a problem-based case management approach to the study of cardiopulmonary disease.

RCA 156

APPLICATION OF SCIENCE IN RESPIRATORY CARE

3 CR. (3L)

PRQ: Admission to the program. Applying the basic concepts of chemistry and physics in relation to the practices of Respiratory Therapy. Interpretation of laboratory data collected from an arterial and/or venous blood sample for identifying a patient's homeostasis with oxygenation and ventilation to maintain a normal acid-base balance. Applying an index of O₂ calculation to determine how gases are exchanged and transported from the atmosphere to the body for the assessment of the cardiopulmonary patient.

RCA 165

PHARMACOLOGY OF CARDIOPULMONARY CARE

3 CR. (2L/1.5LBV)

PRQ: Program admission, RCA 155, RCA 151, or consent of department chair. Focuses on a study of the principles of pharmacology and the pharmacologic properties and application of drugs commonly employed in the treatment of cardiopulmonary disease.

RCA 230

CRITICAL CARE I

2 CR. (3 LBV)

PRQ: RCA 153 or consent of instructor. Focuses on the care of critically ill patients. Includes advanced pulmonary physiology and pathophysiology, assessment and monitoring of acute and chronic respiratory failure, mechanical ventilation and emergency respiratory care. Incorporates a laboratory portion that enables the student to develop skills essential for the assessment and treatment of the critically ill.

RCA 251

CRITICAL CARE II

3 CR. (4.5 LBV)

PRQ: RCA 230 or consent of instructor. Focuses on selected topic areas in critical care. Includes both technical and management concerns in the intensive care setting.

RCA 256

PEDIATRIC AND NEONATAL CARE

3 CR. (2L/1.5 LBV)

PRQ: Program admission, RCA 155, RCA 151, RCA 165, RCA 164, RCA 153, or consent of department chair. Covers aspects of fetal development, neonatology and pediatrics. Cardiopulmonary disorders, respiratory therapeutics, special procedures, labor and delivery will be covered. Students enrolled in this class will also be certified in pediatric advanced life support.

RCA 265

PROFESSIONAL DEVELOPMENT

2 CR. (2L)

CORQ: RCA 283 or consent of instructor. Focuses on preparation for national board exams and professional interaction.

RCA 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

RCA 280

INTERNSHIP I

4.5 CR. (13.5 INT)

PRQ: RCA 131, RCA 132, RCA 155, or instructor's permission. Focuses on the care and analysis of the noncritical patient. Procedures include those presented in RCA 131 and RCA 132.

RCA 281

INTERNSHIP II

7.5 CR. (22.5 INT)

PRQ: RCA 280 or instructor's permission. Focuses on the care and analysis of the critically ill patient. Rotations into specialty areas are carried out as the schedule permits.

RCA 283

INTERNSHIP III

7.5 CR. (22.5 INT)

PRQ: RCA 281 or instructor's permission. Continues to address the care and analysis of the critically ill patient and specialty rotations. Attempts to more closely evaluate the student's ability to manifest critical judgments in solving clinical problems and understanding professional/departmental activities.

Science

SCI 105

SCIENCE IN SOCIETY: GT-SC2

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption, or successful completion of MAT 050 or MAT 055 with a grade of S/C or better. Examines issues relating to the way science affects society. Students will investigate issues in information technology, the environment, physics and astronomy, biology, medicine and the interaction of science with politics. The class will focus on gathering accurate scientific information and applying critical thinking skills and the scientific method to analyze how science plays both positive and negative roles in society. Emphasis will be on student research, inquiry and analysis of science-related issues. This course is one of the statewide Guaranteed Transfer courses, GT-SC2.

SCI 155

INTEGRATED SCIENCE I – PHYSICS AND CHEMISTRY WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ: CCR 092, MAT 050. Examines the nature of energy and matter, their interactions and changes, and the application of fundamental concepts to the study of our natural world. These concepts will be explored in hands-on laboratory experiments. This course integrates the fundamental concepts and ideas about the nature of physics and chemistry with the natural world. This course is one of the statewide Guaranteed Transfer courses, GT-SC1. Course is for elementary education majors only; both SCI 155 & 156 required.

SCI 156

INTEGRATED SCIENCE II – EARTH AND LIFE SCIENCE WITH LAB: GT-SC1

4 CR. (3L/2 LBA)

PRQ CCR 092, MAT 050. Examines earth and biological systems, living and nonliving environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This course is one of the statewide Guaranteed Transfer courses, GT-SC1. Course is for elementary education majors only; both SCI 155 & 156 required.

SCI 275-276

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Small Business Management

SBM 101

STARTING A SMALL BUSINESS

1 CR. (1L)

Provides a brief overview of various topics related to starting a small business. Some topics are types of businesses, location, image, insurance, permits and licenses.

SBM 121

SMALL BUSINESS PLANNING I

9 CR. (9L)

Provides business owners systematic instruction to give them the tools to make sound business decisions based on the fields of study in small business management. This course guides the student in the collection of necessary information to implement a computerized record keeping system and to prepare a business plan. Discussions will include computer terminology, balance sheet concepts, accounting principles, computerized account reports, legal structures of a business, the basics of contract law, basic human resource management and the business plan components.

SBM 122

SMALL BUSINESS PLANNING II

9 CR. (9L)

Guides the student in the collection of necessary information to implement a computerized recordkeeping system and to prepare a business plan. Discussions will include computer terminology, balance sheet concepts, accounting principles, computerized account reports, legal structures of a business, the basics of contract law, basic human resource management and the business plan components. Focuses on implementing a computerized record keeping system.

SBM 131

RECORDS AND COMPUTERIZATION I

9 CR. (9L)

Guides the student in the collection of necessary information to implement a computerized recordkeeping system for the small business owner/operator. Discussion will include computer terminology, application software, balance sheet concepts, accounting principles, computerized accounting reports and business plan components.

SBM 132

RECORDS AND COMPUTERIZATION II

9 CR. (9L)

Covers the implementation of a computerized recordkeeping system for the small business owner/operator. Emphasis will be placed on the application and maintenance of an accurate set of computerized financial records, use of a filing system and compiling a business plan. This course is a continuation of SBM 131.

SBM 141

FINANCIAL ANALYSIS/PLANNING I

9 CR. (9L)

Covers how actual enterprise cost analysis is calculated to facilitate the development of whole business projected cash flow statements. All facets of record keeping and updating of data will be emphasized, including refining and maintaining of a current accounting system. This course includes the review and revision of business planning goals and objectives.

SBM 142

FINANCIAL ANALYSIS/PLANNING II

9 CR. (9L)

Covers business analysis through the development of accurate cost and market value accrual balance sheets for the beginning and ending period for the small business owner/operator. Emphasis will be on the measurement and analysis of changes between the two balance sheets. Analysis will include the preparation of an accrual income statement. Financial ratios will be generated to understand their importance to business analysis. Data generated from an established record keeping system will provide the basis for the development of these accrual financial statements.

SBM 151

MARKETING AND RISK MANAGEMENT I

9 CR. (9L)

Emphasizes the identification of the strengths and weaknesses of the business and applying them in the development of plans for the business. Includes the development of marketing goals and objectives and the development of budgets, including marketing, into the total operating budget and activities of the business. Provides a review of existing financial trends and activities for further analysis of the small business, measuring past and present performance, and developing risk management plans.

SBM 152

MARKETING AND RISK MANAGEMENT II

9 CR. (9L)

Continues from SBM 151 and provides more in-depth processes and planning to strengthen the operator's business through evaluation and planning based on the strengths and weaknesses of the business. The business operator will develop appropriate business, marketing and risk management goals and objectives and be ready to initiate their implementation.

SBM 153

MARKETING, RISK MANAGEMENT AND E-COMMERCE I

9 CR. (9L)

Introduces the development of webpages using structured design to document layout. This course provides the student with hands-on, practical application in creating and maintaining a webpage for small business owners. May include such concepts as webpage layout, text manipulation hyperlinks, graphics, graphics formats, data tables and file downloading requirements, development of the basic marketing plan, defining your market, listing your page with search engines, and working with multimedia and the website.

SBM 154

MARKETING, RISK MANAGEMENT AND E-COMMERCE II

9 CR. (9L)

Introduces the development of webpages using structured design to document layout. This course is a continued study in e-commerce and marketing for small business owners. It provides the student with hands on, practical application in creating and maintaining a webpage for small business owners.

SBM 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SBM 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Social Work

SWK 100

INTRODUCTION TO SOCIAL WORK

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Introduces students to the philosophy of the social work profession including the knowledge, values, ethics, roles and skills inherent to generalist social work.

SWK 106

INTRODUCTION TO ALCOHOL AND DRUGS

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SWK 201

HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT I

3 CR. (3L)

PRQ: Successful completion of PSY 101 and SOC 101, or department chair approval. PRQ/CORQ: SWK 100. Focuses on the person in environment throughout the lifespan with an examination of the relationship between biological, psychological, social, spiritual and cultural systems.

SWK 202

HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT II

3 CR. (3L)

PRQ: Successful completion of SWK 201, or department chair approval. Focus in this course is on an understanding and analysis of larger social systems which include the family, groups, communities and organizations. Emphasis on social systems as an organizing theoretical framework for understanding social functioning and change.

SWK 205

SOCIAL WELFARE IN THE UNITED STATES

3 CR. (3L)

PRQ/CORQ: SWK 100. 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 275-276

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Sociology

SOC 101

INTRODUCTION TO SOCIOLOGY I: GT-SS3

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 102

INTRODUCTION TO SOCIOLOGY II: GT-SS3

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SOC 201

INTRODUCTION TO GERONTOLOGY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 203

URBAN SOCIO-ANTHROPOLOGY

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Examines how cities and city life are shaped by cultural, social, political and economic forces operating at many different levels. Additionally, SOC 203 examines the history and theoretical roots of urban anthropology and sociology, ethnographic fieldwork in urban environment, and urban social organization in cross-cultural perspectives.

SOC 205

SOCIOLOGY OF FAMILY DYNAMICS: GT-SS3

3 CR. (3L)

PRQ: 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 lifestyles. This course is one of statewide Guaranteed Transfer courses, GT-SS3.

SOC 207

ENVIRONMENTAL SOCIOLOGY: GT-SS3

3 CR. (3L)

PRQ: 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: GT-SS3

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 216

SOCIOLOGY OF GENDER: GT-SS3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Gives students the theoretical and factual background necessary to understand the phenomenon of gender stratification in American and other cultures. Students will be exposed to a history of gender stratification in human societies, theoretical explanations for this and insights into the consequences of gender differentiation in our world today. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 218

SOCIOLOGY OF DIVERSITY: GT-SS3

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 231

THE SOCIOLOGY OF DEVIANT BEHAVIOR: GT-SS3

3 CR. (3L)

PRQ: 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 237

SOCIOLOGY OF DEATH AND DYING: GT-SS3

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 265

VIOLENCE AND CULTURE

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Examines the concepts, relationships, organizations and research as they relate to violence in multiple cultural settings. SOC 265 assists in developing an understanding of societal and institutional causes of violence; explores resources for intervention and treatment; and provides service learning applications in violence assessment, treatment and victim assistance.

SOC 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SOC 280

INTERNSHIP

0-12 CR. (0-36 INT)

PRQ: Department chair approval. 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.

SOC 289

CAPSTONE

0-12 CR. (0-36 INT)

PRQ: Department chair approval. Studies and applies the theories and techniques of leadership and group processes. In addition, SOC 289 introduces leadership skills and experiences with applications in group and community settings.

Spanish

SPA 101

CONVERSATIONAL SPANISH I

3 CR. (3L)

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 CR. (3L)

PRQ: Successful completion of SPA 101, or department chair approval. Offers students the skills necessary to understand and speak Spanish. The material continues to cover basic conversations patterns, expressions and grammar.

SPA 109

SPANISH FOR TRAVELLERS

2 CR. (2L)

Introduces the basic vocabulary and expressions useful to travelers in the 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 CR. (5L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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 CR. (5L)

PRQ: SPA 111, or department chair approval. 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 AND II

5 CR (5L)

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 CR. (3L)

Introduces students to a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business and others.

SPA 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

SPA 178

SEMINAR

0-12. (0-180 SEM)

Provides students with an experiential learning opportunity.

SPA 201

CONVERSATIONAL SPANISH III

3 CR. (3L)

PRQ: Successful completion of SPA 102, or department chair approval. Provides students with the skills necessary continue to their study of understanding and speaking Spanish. The material includes intermediate level vocabulary, grammar and expressions.

SPA 211

SPANISH LANGUAGE III: GT-AH4

3 CR. (3L)

PRQ: Successful completion of SPA 112 or department chair approval. Continues Spanish Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of statewide Guaranteed Transfer courses, GT-AH4.

SPA 212

SPANISH LANGUAGE IV: GT-AH4

3 CR. (3L)

PRQ: Successful completion of SPA 211 or department chair approval. Continues Spanish Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the Spanish language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of statewide Guaranteed Transfer courses, GT-AH4.

SPA 235

SPANISH READING-WRITING

3 CR. (3L)

PRQ: Successful completion of SPA 211, or department chair approval. Builds vocabulary and develop reading and writing strategies in Spanish to be able to analyze fictional and nonfictional texts and gain further cultural insight of the Hispanic world. (45 contact hours)

SPA 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Sport Vehicle Technology

SVT 101

SVT ORIENTATION AND SAFETY

1 CR. (0.5L/0.75 LBV)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. CORQ: MAT 107. Designed as an orientation to the sport vehicle repair industry. Students receive an overview of job possibilities as well as learn various types of sport vehicle construction. Focuses on general sport vehicle repair and service shop safety procedures with an emphasis on personal and environmental safety issues. Students also learn the proper handling and disposal of hazardous materials. Names, uses and maintenance procedures for a variety of tools and equipment are addressed.

SVT 102

SVT ROLLING CHASSIS

3 CR. (1.5L/2.25 LBV)

PRQ: SVT 101. Designed to introduce students to the major chassis components of motorcycles. This class will provide training in the basic servicing of motorcycle frames, suspension, tire, wheel and brake systems. Diagnostic procedure, routine maintenance, minor repair, adjustment and special tools will be studied.

SVT 103

SVT ELECTRICAL THEORY

2 CR. (1L/1.5 LBV)

PRQ: SVT 102. Introduces automotive electricity and includes basic electrical theory, circuit designs and wiring methods. Focuses on multimeter usage and wiring diagrams.

SVT 104

2 STROKE ENGINES

2 CR. (1L/1.5 LBV)

PRQ: SVT 103. Introduction to basic two-stroke engine theory, operation and repair.

SVT 105

4 STROKE ENGINES

2 CR. (1L/1.5 LBV)

PRQ: SVT 101. Introduction to basic four-stroke engine theory, operation and repair.

SVT 106

SVT ELECTRICAL REPAIR

2 CR. (1L/1.5 LBV)

PRQ: SVT 105. Designed to expose students to the thought process required to correctly diagnose sport vehicle electrical systems, as well as provide hands-on training to allow for learning of proper repair techniques.

SVT 107

SVT DRIVE SYSTEMS

2 CR. (1L/1.5 LBV)

PRQ: SVT 106. Designed to introduce students to drive components used on modern sport vehicles, including transmission assemblies, clutch components, chain and belt drive systems.

SVT 109

SVT SNOW/ATV/PWC

2 CR. (1L/1.5 LBV)

PRQ: SVT 107. Designed to train students in the various unique aspects of snowmobile, personal watercraft and ATV repair and maintenances.

SVT 160

BASIC MOTORCYCLE REPAIR I

1 CR. (1.5 LBV)

PRQ: SVT 109. Designed to expose current and prospective entry-level motorcycle technicians to basic motorcycle maintenance and repair. Focus will be placed on routine and preventive maintenance and producing. This class is the first in a series of classes (SVT160-SVT180 and SVT299) designed to produce a novice or apprentice-level mechanic. Topics covered in the class include basic safety, hand tool and shop procedure. One objective is to make the learner more familiar with mechanical concepts and more confident in their own ability. Course study may be tailored for each student's specific area of need or interest.

SVT 165

BASIC MOTORCYCLE REPAIR II

1 CR. (1.5 LBV)

PRQ: SVT 160. Designed to build upon concepts and practices learned in SVT160 and expose current and prospective motorcycle mechanics to basic motorcycle maintenance and repair. Focus will be placed on routine and preventative maintenance. Topics covered will study of motorcycle frame, suspension, tire and wheels. One objective is to make the learner more familiar with mechanical concepts and more confident in their own ability. Course study may be tailored for each student's specific area of need or interest.

SVT 201

ADV. ROLLING CHASSIS

4 CR. (2L/3LBV)

PRQ: SVT 102, SVT 103, SVT 104, SVT 105, SVT 106, SVT 107, SVT 109, department chair approval. Designed to build on previous learning and focus students skills as related to the major chassis components of motorcycles. This class will provide advanced training in the servicing and repair of motorcycle frames, suspension, tire, wheel and brake systems. Diagnostic procedure, routine maintenance, major repair, adjustment and special tools will be studied. Hands-on lab activity and actual line work will be the focus of this advanced curriculum.

SVT 202

ADV. SVT ELECTRICAL SYST.

4 CR. (2L/3LBV)

PRQ: SVT 102, SVT 103, SVT 104, SVT 105, SVT 106, SVT 107, SVT 109, department chair approval. Advanced repair and troubleshooting of sport vehicle electrical systems with an emphasis on ignition and charging system diagnosis and repair techniques.

SVT 203

ADV. 2/4 STROKE ENGINES

4 CR. (2L/3LBV)

PRQ: SVT 102, SVT 103, SVT 104, SVT 105, SVT 106, SVT 107, SVT 109, department chair approval. Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of sport vehicle two- and four-stroke engine performance factors. Additionally, repair and renewal procedures for sport vehicles are thoroughly explored.

SVT 204

SIMULATED SHOP OPERATIONS

6 CR. (9 LBV)

PRQ: SVT 102, SVT 103, SVT 104, SVT 105, SVT 106, SVT 107, SVT 109, department chair approval. Provides necessary training in general shop operations, including documentation for basic business requirements, basic accounting techniques, shop insurance requirements, safety regulations and customer relations. Provides necessary training in sport vehicle repair operation/shop format study, including training in general vehicle diagnosis, repair, follow-up inspection and performance analysis of sport vehicles.

SVT 205

SVT INTERSHIP

6 CR. (18 INT)

PRQ: SVT 102, SVT 103, SVT 104, SVT 105, SVT 106, SVT 107, SVT 109, department chair approval. Focuses on student working at an approved job site related to the sport vehicle industry. The student will complete tasks and meet practical objectives as assigning by the employer and agreed upon by the student and Instructor. An on-the-job learning experience at an approved sport vehicle-related business.

Surgical Technology

STE 102

INTRODUCTION TO SURGICAL TECHNOLOGY

6 CR. (6L)

PRQ: Program admittance. Introduces the principles and practices of surgical technology including standards of conduct, professional practice, communication, physical, psychological, social and spiritual needs of the surgical patient, death and dying, special populations, physical environment, safety standards, all-hazards preparedness, biomedical science, asepsis and sterile technique, hemostasis, emergency situations, wound healing, sutures, needles, stapling devices and surgical instrumentation, equipment, and supplies. Perioperative technical skills of the surgical technologist will be demonstrated.

STE 103

INTRODUCTION TO SURGICAL TECHNOLOGY LAB

4 CR. (6 LBV)

PRQ: Program admittance. Introduces hands-on skills in a mock operating room environment for the preoperative phase of surgical technology that includes scrubbing, gowning and gloving, assisting team members, creating and organizing a sterile field, setting up instrumentation on the mayo stand, surgical case management, operative routines, patient transport, patient positioning, prepping and draping, as well as learning procedures for counting instruments, sponges, needles, sharps and other items on the sterile field.

STE 111

SURGICAL PROCEDURES AND CASE MANAGEMENT

6 CR. (6L)

PRQ: STE 102. Identifies the anatomy, physiology, pathology and terminology, as well as specific variations in the preoperative, intraoperative and postoperative care related to general, obstetric, gynecologic, ophthalmic, otorhinolaryngologic, oral, maxillary, plastic and reconstructive, genitourinary, orthopedic, cardiothoracic, peripheral vascular, and neurosurgery. Focus will also be placed on diagnostic procedures and tests, operating room set-up according to the surgical procedure, patient positioning, prepping and draping, instrumentation, equipment, supplies and drugs, procedural steps, purpose and expected outcomes and possible complications.

STE 112

SURGICAL PROC AND CASE MANAGEMENT LAB

4 CR. (6 LBV)

PRQ: STE 103. Introduces surgical case management and the skills required for the surgical technologist to perform in the first scrub role in a simulated surgical environment. This lab covers mock surgical procedures in general surgery, obstetric and gynecologic surgery, ophthalmic surgery, otorhinolaryngologic surgery, oral and maxillofacial surgery, plastic and reconstructive surgery, genitourinary surgery, orthopedic surgery, cardiothoracic surgery, peripheral vascular surgery and neurosurgery surgical specialties.

STE 130

SURGICAL INSTRUMENTS I

3 CR. (3L)

PRQ: Program admittance. Introduces the history and materials used in the manufacture of surgical instruments, as well as the methods used to maintain, clean and sterilize surgical instrumentation and equipment. Students will learn supplies, equipment, and the names, category and use of instrumentation used in general, obstetric and gynecologic, otorhinolaryngology, oral, maxillofacial, plastic, reconstructive and ophthalmic surgical specialties. This course is the first of two courses.

STE 131

SURGICAL INSTRUMENTS II

3 CR. (3L)

PRQ: STE 130. Introduces surgical supplies, equipment and the names, category and use of instrumentation used in genitourinary, orthopedic, cardiothoracic, peripheral vascular and neurosurgery surgical specialties. This course is the second of two courses.

STE 140

SURGICAL CASE STUDIES I

2 CR. (2L)

PRQ: Program Admittance. Identifies case specifics for specified surgical procedures found within general, obstetrics, gynecologic, otorhinolaryngologic, oral, maxillofacial, plastic, reconstructive and ophthalmic surgical specialties. This is the first of two courses.

STE 141

SURGICAL CASE STUDIES II

2 CR. (2L)

PRQ: STE 140. Identifies case specifics for specified surgical procedures found within genitourinary, orthopedic, cardiothoracic, peripheral vascular, and neurosurgical specialties. This is the second of two courses.

STE 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

STE 279

CST EXAM REVIEW COURSE

3 CR. (3L)

PRQ: STE 281. Prepares students for the National Certification Exam administered by The National Board for Surgical Technology and Surgical Assisting (NBSTSA) by introducing test taking skills and strategies for success. Students will review major concepts in the surgical technology program in preparation for the CST examination.

STE 281

SURGICAL TECHNOLOGY CLINICAL INTERNSHIP I

6 CR. (18 INT)

PRQ: STE 111, STE 112, STE 131, STE 141. Provides clinical hands-on experience for student to perform surgical technology duties in the first-scrub, second-scrub, and observation role during any given surgical procedure with proficiency and increased complexity while progressing towards entry-level graduate achievement. Clinical experience will be documented by procedure, date and student role while verifying case counts throughout the surgical rotation as defined by accreditation standards through a total of 120 cases. This is the first of three surgical technology clinical internships.

STE 282

SURGICAL TECHNOLOGY CLINICAL INTERNSHIP II

6 CR. (18 INT)

PRQ: STE 281. Provides clinical hands-on experience for student to perform surgical technology duties in the first-scrub, second-scrub, and observation role during any given surgical procedure with proficiency and increased complexity while progressing towards entry-level graduate achievement. Clinical experience will be documented by procedure, date and student role while verifying case counts throughout the surgical rotation as defined by accreditation standards through a total of 120 cases. This is the second of three surgical technology clinical internships.

STE 283

SURGICAL TECHNOLOGY CLINICAL INTERNSHIP III

6 CR. (18 INT)

PRQ: STE 282. Provides clinical hands-on experience for student to perform surgical technology duties in the first-scrub, second-scrub, and observation role during any given surgical procedure with proficiency and increased complexity while progressing towards entry-level graduate achievement. Clinical experience will be documented by procedure, date and student role while verifying case counts throughout the surgical rotation as defined by accreditation standards through a total of 120 cases. This is the third of three surgical technology clinical internships.

STE 289

SURGICAL TECHNOLOGY CAPSTONE

3 CR. (3L)

PRQ: STE 111, STE 112, STE 131, STE 141, STE 106. Outlines the skills needed in obtaining and keeping a job. Students will learn how to develop a personal marketing plan, set short and long term goals, manage targeted job searches, fill out paper and electronic applications, write a cover letter and resume, and practice mock interviews especially tailored to surgical technology. Students will also continue reviewing major concepts in the surgical technology program in preparation for the CST examination and take a final practice exam.

Theatre

THE 105

THEATRE APPRECIATION: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Includes discussions, workshops and lectures designed to discover, analyze and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism and theory. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

THE 111

ACTING I

3 CR. (3L)

Covers basic acting techniques and approaches, including scene study, improvisation and script analysis. It includes practical application through classroom performance.

THE 112

ACTING II

3 CR. (3L)

PRQ: Successful completion of THE 111, or department chair approval. Continues to explore basic acting techniques and approaches including scene study, improvisation and intermediate script analysis. It includes practical application through classroom performance.

THE 116

TECHNICAL THEATRE

3 CR. (3L)

Introduces hands-on methods of constructing and painting scenery and properties and operating stage lighting. Students also learn the proper procedures of using shop equipment and serving on stage crews.

THE 131

THEATRE PRODUCTION I

3 CR. (3L)

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 CR. (3L)

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 175

SPECIAL TOPICS

0-12 CR.

Provides the student with a vehicle to pursue in-depth exploration of special topics of interest.

THE 211

DEVELOPMENT OF THEATRE GREEK-RENAISSANCE: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Surveys the history and evolution of drama from ancient Greece to the Renaissance, emphasizing all aspects of the art from period values to analysis of dramatic literature and performance. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

THE 212

DEVELOPMENT OF THEATRE RESTORATION TO MODERN: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. Surveys the history and evolution of drama from the Renaissance to the present, emphasizing all aspects of the art from period values to the analysis of dramatic literature and performance. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

THE 215

PLAYWRITING: GT-AH1

3 CR. (3L)

PRQ: Successful completion of any CCR course or qualifying placement score or exemption. 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. This course is one of the statewide Guaranteed Transfer courses, GT-AH1.

THE 220

DIRECTING I

3 CR. (3L)

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 231

THEATRE PRODUCTION III

3 CR. (3L)

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 CR. (3L)

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 275

SPECIAL TOPICS

0-12 CR.

Explores current topics, issues and activities related to one or more aspects of the named discipline.

THE 276-277

SPECIAL TOPICS

0-12 CR.

Provides the student with a vehicle to pursue in-depth exploration of special topics of interest.

THE 283

INTERNSHIP

0-12 CR. (0-36 INT)

PRQ: Department chair approval. 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.

Travel and Tourism

TRA 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

TRA 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

**Upholstery

**UPH 100

BASIC UPHOLSTERY TECHNIQUES

3 CR. (1L/3 LBV)

Covers the upholstery industry: safety, familiarization with tools and materials, sewing, tacking, layout and pattern work.

**UPH 101

AUTO UPHOLSTERY I

3 CR. (1 L/3 LBV)

PRQ: UPH 100 or department chair approval. Covers auto seat upholstery, including removal and replacement, teardown, correct use of materials, cutting and stretching.

**UPH 102

AUTO UPHOLSTERY II

3 CR. (1L/3 LBV)

PRQ: UPH 101 or department chair approval. Continues UPH 101, emphasizing skill development. Carpet, trim, convertible tops, tonneau covers and convertible boots are course components.

**UPH 103

AUTO UPHOLSTERY III

3 CR. (1L/3 LBV)

PRQ: UPH 102 or department chair approval. Introduces repair and/or replacement of armrests, carpet, wind lace, door panels, headliner, convertible tops, tonneau covers and convertible boots.

**UPH 104

FURNITURE UPHOLSTERY I

3 CR. (1L/3 LBV)

Introduces the mechanics and upholstering of reclining household furniture. Completion of upholstery of a reclining chair is required.

**UPH 105

FURNITURE UPHOLSTERY II

3 CR. (1L/3 LBV)

Provides instruction in layout, cut, sewing and application of final covers on pillow type household furniture. Recovering of one pillow-back chair is required.

**UPH 106

FURNITURE UPHOLSTERY III

3 CR. (1L/3 LBV)

Includes reupholstering larger pieces of household furniture such as couches or loveseats. Completion of upholstery of a couch or loveseat is required.

**UPH 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

****Veterinary Technology**

**VET 101

CAREER DEVELOPMENT ANIMALS

2 CR. (2L)

Assists the student in recognizing their career potential in the animal industry. It will supply the tools necessary to be competitive in the animal industry and provides students with the ability to make realistic decisions concerning education and occupational objectives.

**VET 102

VETERINARY MEDICAL TERMINOLOGY

1 CR. (1L)

Introduces the student to the structure of veterinary medical terms with emphasis on using and combining the most common prefixes, roots and suffixes. Includes terms related to major body systems, oncology and psychiatry, as well as clinical laboratory and diagnostic procedures and imaging. Class structure provides accepted pronunciation of terms and relative use in the veterinary specific setting.

**VET 110

SMALL MAMMALS PET MANAGEMENT

4 CR. (3.5L/.75 LBV)

Provides students with basic knowledge and management techniques regarding the small mammals, including the feline, canine and other pet species. Specific mammal problems and their solutions will be emphasized.

**VET 116

HUMANE TREATMENT AND HANDLING OF ANIMALS

3 CR. (2L/1.5 LBV)

Focused upon animal welfare and humane treatment during handling and restraint, behavior, safety, equipment choice and typical clinical procedures.

**VET 120

OFFICE PROCEDURES AND RELATIONS

2 CR. (2L)

Presents common veterinary office procedures including administration, professional etiquette, client relations, career development and job searching skills. Enrichment of computer skills in relationship to current veterinary management software will be emphasized.

Welding

WEL 100

SAFETY FOR WELDERS

1 CR. (1L)

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 101

ALLIED CUTTING PROCESSES

4 CR. (1L/4.5 LBV)

Covers setting up equipment and performing cutting and gouging operations utilizing the oxyacetylene, air carbon arc, exothermic and plasma arc cutting processes. This course will also provide an introduction to blueprint reading.

WEL 102

OXYACETYLENE JOINING PROCESS

4 CR. (1L/4.5 LBV)

Introduces safety inspections, minor repairs, operating parameters, oxyacetylene welding equipment, and oxyacetylene welding, brazing and soldering operations. Blueprint reading skills will be practiced in this course.

WEL 103

BASIC SHIELDED METAL ARC I

4 CR. (1L/4.5 LBV)

PRQ: WEL 102. Covers performing safety inspections, making minor repairs, adjusting operating parameters, and operating SMAW equipment utilizing E-6010 electrodes. Layout procedures and practices will also be introduced.

WEL 104

BASIC SHIELDED METAL ARC II

4 CR. (1L/4.5 LBV)

PRQ: WEL 103. Covers performing safety inspections, making minor repairs, adjusting operating parameters, and operating SMAW equipment utilizing E-7018 electrodes. Layout procedures will be practiced during this course.

WEL 106

BLUEPRINT READING FOR WELDERS AND FITTERS

4 CR. (2L/3 LBV)

Covers interpreting weld symbols on blueprints, identifying proper layout methods and tools, and proper joint design necessary for various welding processes.

**WEL 110

4 CR. (4L)

ADVANCED SHIELDED METAL ARC I

Covers safety inspections, minor repairs, operating parameters, operation of SMAW equipment, and SMAW operations on groove and fillet welds utilizing E-6010 and E-7018 electrodes. Layout procedures will be practiced during this course.

**WEL 111

4 CR. (1L/4.5 LBV)

ADVANCED SHIELDED METAL ARC II

Covers safety inspections, minor repairs, operating parameters, operation of SMAW equipment utilizing various electrodes, essential welding information from codes or other standards, and performance of weld inspections.

WEL 115

AUTOBODY WELDING & CUTTING

4 CR. (1L/4.5 LBV)

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 124

INTRODUCTION TO GAS TUNGSTEN ARC WELDING

4 CR. (1L/4.5 LBV)

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 CR. (1L/4.5 LBV)

PRQ: WEL 124. 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 141

INTRODUCTION TO MULTI PROCESS WELDING

4 CR. (1L/4.5 LBV)

Covers welding in the 1F and 1G positions on various joint configurations using the SMAW (stick), GMAW (mig), GTAW (tig) and the FCAW (flux core) welding process on carbon steel; adjusting parameters and operating equipment, utilizing the various filler materials for each process. Layout procedures will be introduced and practiced, along with welding safety, industry standard soft skills and AWS filler metal classification and selection. Basic math, measuring, computer skills and blueprint reading will be introduced.

WEL 142

BASIC MULTI PROCESS WELDING

4 CR. (1L/4.5 LBV)

PRQ: WEL 141. Covers welding in the 2F and 2G positions on various joint configurations using the SMAW (stick), GMAW (mig), GTAW (tig) and the FCAW (flux core) welding process on carbon steel, adjusting parameters and operating equipment utilizing the various filler materials for each process. Layout procedures, safety, blueprint reading skills and weld symbol identification will be practiced during this course.

WEL 143

INTERMEDIATE MULTI PROCESS WELDING

4 CR. (1L/4.5 LBV)

PRQ: WEL 142. Covers welding in the 3FU and 3GU positions on various joint configurations using the SMAW (stick), GMAW (mig), GTAW (tig) and the FCAW (flux core) welding process on carbon steel, adjusting operating parameters and operating equipment utilizing the various filler materials for each process. Basic metallurgy will be presented.

WEL 144

ADVANCED MULTI PROCESS WELDING

4 CR. (1L/4.5 LBV)

PRQ: WEL 143. Covers welding in the 4F and 4G positions on various joint configurations using the SMAW (stick), GMAW (mig), GTAW (tig) and the FCAW (flux core) welding process on carbon steel, adjusting operating parameters and operating equipment utilizing the various filler materials for each process. Resume writing and interview skills will be presented and practiced. Advanced blueprint reading will be focused on including study of complex print reading and weld symbols.

WEL 150

AWS QUALIFICATION TESTING

1 CR. (1L)

Provides students with the opportunity to complete a welding qualification test in accordance with an American Welding Society code or specification.

WEL 175-177

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

**WEL 201

GAS METAL ARC WELDING I

4 CR. (1L/4.5 LBV)

Covers safety inspections, minor repairs, operating parameters, operation of GMAW equipment on plain carbon steel utilizing short circuit and spray transfer, and fundamental metallurgy principles.

**WEL 202

GAS METAL ARC WELDING II

4 CR. (1L/4.5 LBV)

Covers safety inspections, minor repairs, operating parameters, operation of GMAW equipment utilizing a variety of electrodes and base metals, and fundamental principles of welding metallurgy to welding, fabrication and inspection.

WEL 224

ADVANCED GAS TUNGSTEN ARC WELDING

4 CR. (1L/4.5 LBV)

PRQ: WEL 124, WEL 125. 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 CR. (1L/4.5 LBV)

PRQ: WEL 124, 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 CR. (1L/4.5 LBV)

PRQ: WEL 103. 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 233

2G-HORIZONTAL PIPE A.P.I.

4 CR. (1L/4.5 LBV)

PRQ: WEL 104 or equivalent. Instruction in safety, theory and practical applications in joint fit-up, design and welding pipe in the 2-G horizontal position. Welding in accordance with the American Petroleum Institute Pipe Code using the SMAW process with E-XX10 type electrodes.

WEL 234

5G-VERTICAL DOWN A.P.I.

4 CR. (1L/4.5 LBV)

PRQ: WEL 233. Instruction in safety, theory and practical applications in joint fit-up, design and welding pipe in the 5-G Vertical down position. Welding in accordance with the American Petroleum Institute Pipe Code using the SMAW process with E-XX10 type electrodes.

WEL 235

6G-45 DOWN A.P.I.

4 CR. (1L/4.5 LBV)

PRQ: WEL 234. Instruction in safety, theory and practical applications in joint fit-up, design and welding pipe in the 6-G 45° down position. Welding in accordance with the American Petroleum Institute Pipe Code using the SMAW process with E-XX10 type electrodes.

WEL 239

2G-HORIZONTAL PIPE A.S.M.E.

4 CR. (1L/4.5 LBV)

PRQ: WEL 233. Instruction in safety, theory and practical applications in joint fit-up, design and welding pipe in the 2-G Horizontal position. Welding in accordance with the American Society of Mechanical Engineers Pipe Code using the GTAW process and SMAW process with E-XX18 and E-XX10 type electrodes.

WEL 241

5G-VERTICAL UP A.S.M.E.

4 CR. (1L/4.5 LBV)

PRQ: WEL 239. Instruction in safety, theory and practical applications in joint fit-up, design and welding pipe in the 5-G Vertical up position. Welding in accordance with the American Society of Mechanical Engineers Pipe Code using the GTAW process and SMAW process with E-XX18 and E-XX10 type electrodes.

WEL 242

6G-45 ALL SIZES PIPE

4 CR. (1L/4.5 LBV)

PRQ: WEL 241. Instruction in safety, theory and practical applications in joint fit-up, design and welding pipe in the 6-G 45° Uphill position. Welding in accordance with the American Society of Mechanical Engineers Pipe Code using the GTAW process and SMAW process with E-XX18 and E-XX10 type electrodes.

WEL 243

TESTING ALL SIZES PIPE

4 CR. (1L/4.5 LBV)

Testing with different sizes of pipe to the American Petroleum Institute Pipe Code and American Society of Mechanical Engineers codes in all positions 2G, 5G, 6G with 2 3/8-inch pipe and 2-inch pipe.

WEL 248

PIPE LAYOUT

4 CR. (1L/4.5 LBV)

Using pipe template layout procedures and drawing procedures, perform cutting on pipe. Performs layout such as Y-fittings, laterals, full size tees, elbows, orange peel, bull plug, reducers, reducing tees and branch pipe.

WEL 250

LAYOUT AND FABRICATION

4 CR. (1L/4.5 LBV)

PRQ: WEL 102. Develops welding and associated skills in the use of drawings and blueprints in planning. Includes designing and layout projects.

WEL 251

DESIGN, LAYOUT AND FABRICATION

4 CR. (1L/4.5 LBV)

PRQ: WEL 102, WEL 124, WEL 250. Develops advanced welding and associated skills in the use of drawings and blueprints in planning. Includes designing and layout projects.

WEL 263

APPLIED METAL PROPERTIES

4 CR. (3L/1.5 LBV)

Introduces the study of metal properties, hardness testing, heat treatment, cold working microscopic examination and application of common commercial alloys in industry.

WEL 275-277

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Wind Turbine Technology

**WTG 100

INTRODUCTION TO WIND INDUSTRY

3 CR. (3L)

Introduces students to the wind power generation industry. Topics covered will include physics of wind energy, various sizes and types of wind turbines, reading wind maps for finding the best wind locations. Students will also engage in discussions of the impact of the wind industry on social, environmental, economic and political issues.

**WTG 110

WTG POWER & CONTROL SYSTEMS

3 CR. (2L/1.5 LBV)

PRQ: WTG 100, ELT 106. Provides a comprehensive overview of the wind turbine generator systems. Focus will be on the power distribution and systems controls, including theory, application, component identification and schematics. Safety and appropriate personal protective equipment will be emphasized in lab environment.

**WTG 175

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

Women's Studies

WST 200

INTRODUCTION TO WOMEN'S STUDIES: GT-SS3

3 CR. (3L)

PRQ: CCR 092. 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. This course is one of the statewide Guaranteed Transfer Courses, GT-SS3.

WST 275

SPECIAL TOPICS

0-12 CR.

Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

PHOTO

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PhD, University of Colorado-Colorado Springs
MNM, Regis University
BSBA, Colorado State University - Pueblo

Dr. Jeffrey Alexander, Dean, Arts and Sciences
PhD, MA, University of British Columbia
BA, Brock University

Nicholas Alfonso, Faculty Council Chair
Department Chair/Faculty – Science
MS, BS, Colorado State University-Pueblo

M.D. “Butch” Batchelder, Jr., Shared Governance
Co-Chair/Senior Human Resources Professional
MBA, University of Phoenix
BSBA, Colorado State University-Pueblo
AAS, AGS, Pueblo Community College

Jon Brude, Chief Business Officer
MBA, University of Phoenix
BSBA, University of Southern Colorado

Dr. Lana Carter, Dean, Fremont Campus
PhD, MS, Colorado State University

Mary Chavez, Dean, Health Professions and
Public Safety
MED, University of Phoenix
BS, University of Southern Colorado
AAS, Colby Community College

Amanda Corum, Executive Director, Pueblo
Corporate College
MBA, Colorado Technical University
BS, Colorado State University-Pueblo
AAS – Pueblo Community College

Bryan Crawford, Director, Information Technology
MS, University of Utah
BS, Adams State College

Julie C. Jimenez, Assistant to the President
BS, Regis University

Mary McMahon, Shared Governance Co-
Chair/Department Chair/Faculty – Business &
Office Technologies
MA, BS, University of Northern Colorado

Tonya Nelson, Executive Director, SCCC
MBA, University of Phoenix
BS, Northern Arizona University

Ken Nufer, Director, Human Resources
BSBM, University of Phoenix
AS, City University

Jennifer Sherman, Dean, Business and Technology
MBA, BS, Colorado State University-Pueblo

Corey Shilling, Director, Institutional Research
MBA, BA, BS, Colorado State University-Pueblo

Erin White, Director, Marketing & Communications
MBA, Colorado Technical University
BA, Colorado State University

Directors

Emma Alcala

Controller
BSBA, Colorado State University-Pueblo

Cynthia Ayala

Director, Upward Bound
MEd, Lesley University
BA, Colorado State University-Pueblo

Ross Barnhart

Director, Learning Center
MEd, University of Vermont
BA, Colorado College

Barbara Benedict

Director, Admissions and Records
MSPM, Colorado Technical University
BS, Colorado Christian University
AAS, Pueblo College of Business and Technology

Colton Bjerke

Director, Academic Services SCCC
MNR, University of Idaho
BA, Northern Arizona University

Samantha Bole

Director, Print, Photo Imaging, & Mailroom
BS, Colorado State University-Pueblo

William Brown

Director, Public Safety
AAS, Aims Community College

Michael Degenhart

Director, Dining Services/Executive Chef

Michael Gage

Director, Advising
MEd, Arizona State University
BA, Adams State College

Monica Hardwick

Director, Financial Aid
MBA, Colorado Technical University
BA – Colorado State University-Pueblo

Kathryn Herrin

Director, Academic Services, Fremont
BA, University of Nebraska-Lincoln

Richard Ince

Director, Pueblo Downtown Studio Campus
BSBA, Adams State College

Eric Ingmire

Director, Student Services, Fremont
MS, Kansas State University

Ed Iniguez

Director of Purchasing
BS, Colorado State University-Pueblo

Dennis Trujillo Johnson

Director, Student and Judicial Affairs
MA, Adams State College
BA, University of Notre Dame

Clifford Kitchen

Director, Facilities Services
MBA, National University

Laura Latimer

Regional Director, Student Success, SCCC
MA, Adams State University
BS, Washington State University

Michael Maffucci

Director, Student Life & Leadership

Andrea Martinez

Director, TRiO Student Support Services
MSW, University of Denver
BA, California State University-San Bernardino

Joey Mathews

Director, STEM Career and Technical Education
MS, BS, Colorado State University-Pueblo

Christina McGrath

Director, Library Services
MLS, San Jose State University
BS University of Maine-Augusta
AAS, Pueblo Community College

Mary Alice “Mo” Montgomery

Director, Hospitality & Culinary Arts
BS, AS, Johnson & Wales University

Bernadette O’Keefe

Director, Student Center Auxiliaries
MBA, University of Phoenix
BA, University of Colorado

Juanita Pena

Director, Finance
MA, DeVry University

Angela Shehorn

Director, Children First
BA, Regis University
AAS, AA, Pueblo Community College

Jeanelle Soto-Quintana

Director, Pre-College Programs
BS, MBA, University of Southern Colorado

Valerie Switzer

Director, Professional Development
MA, University of Phoenix
BSBA, Colorado State University-Pueblo

Eva Tapia

Director, Simulation Center
MSN, University of California-San Francisco
BSN, University of Colorado

Caroline Trani

Director, Small Business Development Center
MAOM, University of Phoenix

Chase Watts

Director, Recruiting

Professional/Technical Staff

Alixandria Aguilar

Program Specialist, TRiO Upward Bound
MBA, BSBA, Colorado State University-Pueblo

Encarnacion “Cheryl” Anderson

Coordinator, Grant & Resource Development

Robert Anderson

Advisor, Financial Aid
BS, University of Northern Colorado

Duemece Aragon

Manager, Testing Center
BS, Colorado State University-Pueblo

Koy Arriaga

Specialist, Pueblo Joe’s/Dining Services

Cheryl Ayala

Specialist, Customer Solutions
BS, Franklin University
AGS, Pueblo Community College

Diane Baker

Coordinator, Academic Advising
MA, University of Phoenix
BS, Colorado State University - Pueblo

Adrian Banister

Resource Specialist, Pre-College Programs
MBA, Colorado Technical University
BSBA, Colorado State University-Pueblo
AGS, Pueblo Community College

M.D. “Butch” Batchelder, Jr.

Senior Human Resources Professional
MBA, University of Phoenix
BSBA, Colorado State University-Pueblo
AAS, AGS, Pueblo Community College

Steve Bigley

Coordinator, Photo Imaging
AA, Madison Area Technical College

Amy Box

Advisor, Financial Aid
BS, McPherson College
MA, Adams State University

Rachel Brown

Navigator, CHAMP Grant
MA, Adams State University

Samuel Brubaker

Coordinator, Mechanical Systems
MBA, University of Nebraska-Lincoln
BS, Colorado School of Mines

Steven Candelaria

Advisor, Financial Aid

Douglas Cimino

Technical Systems Analyst
AAS, Pueblo Community College

Bonnie Clark

Coordinator, Disability Resources
BA, Regis University

Kathleen Collins

Program Coordinator, Health Information
Technology
MBA, University of Phoenix
BS, University of Colorado-Denver

Joseph “Casey” Connors

Coordinator, Academic Advising

Katherine Cox

Coordinator, Programs

Kristin Crowley

Research Assistant
BSBA, University of Arkansas

Aaron Daniel

Specialist, Pre-College Programs
MA, National University

Catlin Davis

Coordinator, Welding Lab
BS, Colorado State University-Pueblo

Alejandra de Anda

Specialist, Operations
BA, Colorado State University-Pueblo
AA, Pueblo Community College

Maria de la Cruz

Academic Excellence Administrator
BA, Adams State University
AAS, Trinidad State Junior College

Misa Dunkel

Specialist, Tutorial Services
BS, University of Southern Colorado

Brian Estrada

Business Manager, Culinary Arts & Hospitality

Stanley Eubanks

Coordinator, Technology Training & Laboratory-SCCC
AAS, Pueblo Community College

Amber Felix

Resource Specialist, Pre-College Program
BS, Colorado State University - Pueblo

Samuel Fletcher

Transfer Coach, TRiO Student Support Services
BA, Colorado State University-Pueblo

Shiloh Force

Specialist, Testing
M.A., B.A., University of Central Oklahoma

William Franklin

Technical Systems Analyst
AAS, Pueblo Community College

Daniel Gallegos

Coordinator, Environmental Health and Safety
MBA, Colorado Technical University
BA, University of Phoenix
AAS, Pueblo Community College

Sally Gillen

Resource Specialist, Pre-College Program
MLS, University of Denver
BA, Fort Lewis College

Debra Grymkoski

Coordinator, Science Lab
MS, Illinois Institute of Technology
BS, Northern Illinois University

Cristina Guerra

Coordinator, Learning Center Operations
BS, Colorado State University

Marvin Hays

Coordinator, Catering

Linda Henley

Advisor, Financial Aid
BS, Colorado State University-Pueblo

Violeta Hernandez, CDA, EFDA

Clinical Dental Assistant/Office Administrator
BA, Colorado State University-Pueblo
AA, Trinidad State Junior College
Certificate, Pueblo Community College

Jordyn Hiner

Specialist, Testing
BSBA, Colorado State University-Pueblo
AGS, Pueblo Community College

Bonnie Housh

Academic Excellence Administrator
MS, BS, Colorado State University-Pueblo

Tamara Housh

Coordinator, Scheduling & FLAC

Charles Hurley

Graphic Artist
AAS, Pueblo Community College

Leslie Jakeman

Coordinator, Career & Technology Pathway
M.S., Kansas State University
B.A., University of Colorado - Boulder

Joshua Johns

Coordinator, Health & Public Safety

Jeffrey Kenney

Academic Excellence Administrator
MA, University of Denver
BS, AS, St. Petersburg College

Robert “Mike” Krakow

Specialist, Senior Information Technology

Robin Leach

Specialist, Multimedia Technology/Distance
Education
AAS, Pueblo Community College

Delia Lechtenberg

Academic Liaison
MEd, BSBA, University of Phoenix
RRT, AAS, Pueblo Community College

Shannon Livick

Special Assistant, Executive Dean-SCCC

Aaron Lucero

Engagement Coach
BS, University of Northern Colorado

Gabriel Lucero

Coordinator, Manufacturing Pathways
MBA, BSBA, Colorado State University-Pueblo

Laura Lucero

Coordinator, Admissions
AAS, Pueblo Community College

Lori Lucero

Sales Manager
BS, Colorado State University-Pueblo

Kristina Lyon

Coordinator, Recreation Center
BS, Colorado State University-Pueblo

Ronald Madrid

Coordinator, Operations Management Training

Connie Madsen

Coordinator, Records
BS, University of Colorado-Colorado Springs

Arthur Malechek

Coordinator, Technology Training
BS, Northern Illinois University

Amy Matthew

Coordinator, Public Relations
BS, University of Southern Colorado

Kimberly McCullah

Success Coach, Dental Hygiene BAS Program
BS, Colorado State University-Pueblo

Joaquin McDonald

Coordinator, Regional High School Outreach
BA, University of New Mexico

Paula McPheeters

Budget Manager
MPA, University of Colorado-Denver
BS, University of Southern Colorado

Kevin Milder

Data Analyst
BA, Western State Colorado University

Molly Milusnic

Specialist, Community Advisor

Lauren Montoya

Associate Producer/Editor

Paul Murphy

Senior Systems Administrator

Tracy Neve

Advisor, Recruitment and Retention
BS, Colorado State University-Pueblo
BS, University of Northern Colorado

Carol Oles

Software Developer
BSBA, AAS, University of Southern Colorado

Katie Opdyk

Coordinator, Academic Advising & Financial Aid,
SCCC

Jamie Peralta

Retention Coach, TRiO Student Support Services
MSW, Rutgers University

Peggy Priebe

Manager, Technical Services
AAS, Mitchell Technical Institute

Laycee Rexroth

Special Assistant, Executive Dean—Fremont
BA, Metropolitan State University-Denver

Scott Richards

Coordinator, Media Productions

Tonya Roberts

Coordinator, GolZone Services
BS, Colorado State University-Pueblo

Brenda Gonzales-Rodriguez

Advisor, Early Childhood Community
AAS, Pueblo Community College

Robin Romero

Specialist, Customer Solutions
BA, Colorado State University-Pueblo
AA, Pueblo Community College

Amy Rye

Program Manager, CHAMP Grant Project
MEd, Arizona State University
BA, Wichita State University

Marisa Salazar-Vigil

Coordinator, Academic Advising-SCCC

Jackie Sanchez

Sales Assistant/Cashier, Dining Services

Jill Sanchez

Manager, Cashier's Office
BSBA, Colorado State University-Pueblo
AGS, Pueblo Community College

Arlene Sanders

Administrative Assistant, Pre-College Programs

Shane Schirmer

Manager, Core Technology
BS, Colorado State University-Pueblo

Jim Schultz

Assistant Controller
BSBA, California Polytechnic State University
AA, Cuesta College

Nancy Scofield

Instructional Designer
MEd, Lesley University
BA, Colorado State University-Pueblo
AA, York College

Anita Seamans

Coordinator, Law Enforcement Academy-SCCC

Desirae Segura

Event Planner, Conference & Event Services
AAS, Pueblo Community College

Katherine Serena

Advisor, Early Childhood Community

Karyl M. Shawcroft

Assistant Director, Admissions & Records
BS, Adams State University
AAS, Pueblo Community College

David Siguenza

Coordinator, Academic Advising
MBA, BSBA, Colorado State University-Pueblo

Barbara Simms

Coordinator, Enrollment Services
BS, Colorado State University-Pueblo
AS, Pueblo Community College

Toni Skilling

Advisor, Financial Aid
AGS, AA, Pueblo Community College

John Smith

Coordinator, Public Safety, Fremont

Dominique Son

Coordinator, Recruitment
BA, Colorado State University-Pueblo

Dorothy "Denise" Spaccamonti

Coordinator, Concurrent Enrollment
MBA, Colorado Technical University
BA, Adams State College
AAS, Pueblo Community College

Crystal Stark

Coordinator, Health Professions & Public Safety
Simulation
MSN, Regis University
BSN, Colorado State University-Pueblo

James Stubblefield

Coordinator, Laboratory

Helen Taylor

Assistive Technology/Alternative Media

Frances Thurlow

Clinical Dental Assistant/Office Administration
AAS, Certificate, Pueblo Community College

Tony Trujillo

Advisor, Financial Aid

Crystal Tucker

Coordinator, Online Media
AAS, Pueblo Community College

Dr. Robert Waggener

Supervising Dentist
DDS, Northwestern University
BA, University of Colorado-Boulder

Brenda Wallerstedt

Medical Assistant
AAS, Intellitec College

Rebecca Wasil

Advisor, Disability Resources
BA, The Ohio State University

Ross Weaver

Manager, Innovation Center & Industry Advisor

Ruth White

Coordinator, Career Services
MA, Adams State College
MSW, University of Michigan
BA, Calvin College

Michael Whitworth

Coordinator, Learning Center SCCC-West
BA, University of Florida

John Wooten

Academic Advisor, Upward Bound
AA, AGS, Pueblo Community College

Jill Young

Sales Manager, Conference & Event Services

Nancy Zimmer

Coordinator, Operations-SCCC
MPA, University of Colorado-Colorado Springs

Faculty

Nicholas Alfonso

Department Chair/Faculty – Science
MS, BS, Colorado State University-Pueblo

Jeannie Almanza

Faculty/Coordinator – Radiologic Technology
BA, Ottawa University
AAS, Hutchinson Community College & Area
Vocational School

Robert Baker

Faculty – Mathematics
MA, BA, University of Montana
BAEd, University of Montana

Benjamin Bedard

Faculty – Hospitality Studies/Culinary Arts
AGS, Pueblo Community College

Charles Bonfadini

Faculty – Psychology
MA, BA, Adams State College

Donna Borders

Department Chair/Faculty Nursing Assistant
AS, Pueblo Community College

Colleen Boyle

Faculty – English
MA, Roosevelt University
BA, University of Illinois-Chicago

John Bradford (Brad) Bowers

Faculty – History
MA, Utah State University
BA, Colorado State University-Pueblo

Rosemary Breckenfelder

Department Chair/Faculty – Early Childhood
Education
MEd, Lesley College
BS, Fitchburg State College

Emilie Budd

Coordinator/Faculty – Nursing

Murat Bulut

Faculty – Physics
MS, Southern Illinois University

Marisa Camper

Faculty – Dental Hygiene
BS, Oregon Institute of Technology
AAS, Pueblo Community College

Linda Capito

Faculty – Dental Hygiene
BS, Oregon Institute of Technology

Shawna Chamberlain

Department Chair/Faculty – Medical Imaging
Technologies/Radiologic Technology
MBA, Colorado Technical University
BS, University of St. Francis
AAS, Pueblo Community College

James Cordova

Department Chair/Faculty Automotive Collision
Technology, Automotive Service Technology
AAS, Pueblo Community College

Judy Costanza

Coordinator/Faculty – Dental Hygiene
BS, University of Missouri-Kansas City
AAS, Pueblo Community College

Roger Cox

Faculty – Radiology Technology
MS, Kaplan University
BS, Franklin University
.AS, Pueblo Community College

Jacob Drummond

Faculty – Welding
AAS, Pueblo Community College

Dustin Dunaway

Faculty – English/Communication
MA, BA, University of Colorado-Colorado Springs

John Duston

Faculty – Auto Service Technology, Fremont
AAS, Blair College

Matthew “Joe” Easton

Department Chair/Faculty – Accounting/Business Management
BSBA, University of Denver

Elsa Eccles

Department Chair /Faculty – Dental Hygiene
MEd, Regis University
BS, MS University of Phoenix
AAS, Pueblo Community College

David R. Edwards

Department Chair/Faculty – Fine Arts and Humanities
MEd, Central State University
BS, Harding University

Michele Edwards

Department Chair/Faculty – Cosmetology
Certificate/License Cosmetology

Michael J. Engle

Department Chair/Faculty – History
MA, University of Texas at El Paso

Craig Feigenbaum

Faculty – Biology, SCCC
MS, Colorado State University

Donna Fitzsimmons

Department Chair – Social Sciences
Faculty – Psychology
MA, Adams State College
BA, University of Northern Colorado

Jamie Gage

Department Chair/Faculty – Advanced Manufacturing
BS, Colorado State University
AA, Cottey College

Valerie Galloway

Faculty – Psychiatric Tech
MSN, Grand Canyon University
BSN, California State University-Sacramento

Timothy Gama

Faculty – Computer Information Systems
BS, Trinity College

Leroy Garcia

Faculty – Emergency Medical Services
MA, Ashford University
BS, University of Phoenix
AAS, Certificate, Pueblo Community College

Duane Garrett

Faculty – Spanish
MA, University of New Mexico
BA, Sonoma State University

Jennifer Geitner

Coordinator/Faculty – Occupational Therapy
MOT, Western New Mexico University
BS, Colorado State University
AAS, Pueblo Community College

Tene’ Greenhood

Faculty – Accounting
MBA, BSBA, Colorado State University-Pueblo

Cynthia Graham

Faculty – English/Communication
MEd Northwestern Oklahoma State University
BA, Oklahoma State University

Pamela Graham

Faculty – Cosmetology

Cody Hager

Faculty – Welding, SCCC

Lawrence Harmon

Faculty – Electronics
Certificate, DeVry University

Lisa Heckel

Faculty/ACCE – Physical Therapist Assistant
BSBA, Colorado State University
AA, Aims Community College
AAS, Pueblo Community College

David Hiltbrunn

Faculty – Emergency Medical Services
Certificate, Tacoma Community College

Gertrud “Marianne” Horvath

Faculty – Health Information Technology
B.S., University of Colorado-Colorado Springs

Joseph Jaburg

Faculty – Automotive Technology, SCCC

John Jakeman

Faculty – Culinary Arts
BS, The Art Institute of Pittsburgh
AAS, Pueblo Community College

Cheri Johnson

Faculty – Nurse Aide, SCCC

Mary “Avia” Kallage

Faculty – Astronomy and Geology
MS, BA, University of Colorado-Colorado Springs

Richard Keilholtz

Department Chair/Faculty – Criminal Justice
JD, Southern Illinois University-Carbondale
BA, University of Iowa

Maria Kelson

Faculty – English/Communication
MA, University of California-Davis
BA, Colorado State University

Alicia Kielas

Faculty – Psychiatric Technician
BSN, University of Colorado

Paula Kirchner

Faculty - Nursing
MSN, Regis University

Brenda Knapp

Faculty/Coordinator – Cosmetology, SCCC

William Kuik

Faculty – Automotive Technology, SCCC
BS, University of Colorado-Boulder

Kimberly Kushner

Faculty – Science
MS, BS, Colorado State University-Pueblo
AS, Pueblo Community College

Margaret LaRose

Coordinator/Faculty – Nursing, SCCC
MSN, Regis University
BSN, University of Alaska-Anchorage

Kari Lee

Faculty – English/Communication
MA, Colorado State University
BA, Colorado State University-Pueblo
AA, Trinidad State Junior College

Ronald Leyba

Department Chair/Faculty – Law Enforcement
Academy

Bonnie Kim Lins

Faculty – Nursing, Fremont
MSN, University of Florida
BSN, University of Southern Florida

Kimberly Martin

Faculty – Respiratory Care
AAS, Pueblo Community College

Dawnelle Mathis

Department Chair/Faculty – Emergency Medical
Services
MA, New York Chiropractic College
BS, Sioux Falls College

Kathy Maurello

Department Chair/Faculty – Medical Assisting
BS, Colorado State University-Pueblo
AAS, Pueblo Community College

David McKean

Faculty – Fine Arts & Humanities
MFA, Fort Hays State
BA, University of Northern Colorado

Mary McMahon

Department Chair/Faculty – Business & Office
Technologies
MA, BS, University of Northern Colorado

Elizabeth “Liz” Medendorp

Faculty/Coordinator – English/Assessment of
Student Learning
MA, University of Massachusetts Amherst
BA, University of Michigan

Melinda Milkowski

Faculty – Early Childhood Education
MEd, Kennesaw State University

Diana Montoya

Department Chair/Faculty – Surgical Technology
BS, Colorado Technical University
AA, University of Phoenix

Shanna Montoya

Faculty – Clinical Dental Assistant
BS, Colorado State University-Pueblo

Chip Nava

Department Chair/Faculty – Mathematics
MS, University of Northern Colorado
BS, University of Southern Colorado

Luis A. Nazario

Department Chair/Faculty – English/Communication
MA, New York University
BA, Inter-American University-Puerto Rico

Mary Nicks

Faculty – Nursing
MSN, Walden University
BSN, University of Southern Colorado

Ann Oreskovich

Faculty – Humanities
MA, Eastern Illinois University
MFA, Washington University
BA, Grinnell College

Margaret “Peggy” Oreskovich

Department Chair/Faculty – Physical Therapist
Assistant
MS, Colorado State University-Global Campus
BA, Illinois State University
AAS, Pueblo Community College

Bradley Paglione

Faculty – Welding
AAS, Pueblo Community College

Travis Parkhurst

Faculty – Philosophy
MA, Yale Divinity School

Jamie Patti

Faculty – English/Communication
MA, BA, University of Colorado
AA, Pueblo Community College

Dr. Michael Payne

Faculty – Mathematics
PhD, The University of New Mexico
MS, BA, University of Colorado-Colorado Springs

Joan Pope

Faculty – Nursing
MSN, University of Central Florida
BS, University of Colorado

Raeann Quintana

Faculty – Surgical Technology
AS, Colorado Technical University

Andrea Rael

Faculty – Cosmetology

Robert Reed

Faculty – Welding, SCCC

Lawrence Romero

Faculty – Welding

Lynne Ross, LMT

Faculty/Coordinator – Human Anatomy Learning Ctr
(HALC)
MS, Auburn University
BS, State University of New York College at Cortland

Gunilla Rushing

Faculty – Physical Therapist Assistant
BS, California State University-Long Beach

Troy Salazar

Coordinator/Faculty – Emergency Medical Services
BS, Colorado Christian University
AAS, Pueblo Community College

Tina Sandoval

Faculty – Mathematics
MA, BS, Regis University

Rosalia “Henri” Santiago

Faculty – Science
MS, BS, University of Southern Colorado

Mary Satre

Faculty/Coordinator – Nursing, Fremont
MSN University of Colorado-Denver

Wayne Schwarze

Faculty – Machining
AAS, Pueblo Community College

Tamara Sellers

Faculty/Coordinator – Nursing Clinical & Lab
MS, University of Phoenix
BS, University of Central Oklahoma

Shawna Shoaf

Department Chair/Faculty – Communication/Digital
Media/Broadcasting and Production Technology
MA, Rocky Mountain College of Art and Design
BS, Colorado State University-Pueblo
AA, Collins College

Matthew Sterner-Neely

Faculty – English/Communication
MA, Southern New Hampshire University
MEd, BS, Colorado State University-Pueblo
AA, Pueblo Community College

Michele Sweeney, M.D.

Faculty – Emergency Medical Services
MD, Case Western Reserve University
BA, Grinnell College

Marilyn Tabor

Faculty – Nursing
M.S., Colorado State University-Pueblo

Edward Tracey

Faculty – Hospitality Studies
AOS, The Culinary Institute of America

Shawna Tracy

Department Chair/Faculty – Respiratory Care
BS, Boise State University
AAS, Pueblo Community College

Janet Trujillo

Department Chair/Faculty – Dental Assisting
BS, Colorado State University

Pamula Tyner

Faculty – Mathematics
BS, Colorado State University

Anna Vaughn

Faculty – Nursing, SCCC
MSN, Chamberlain College of Nursing
BSN, Northwestern State University of Louisiana
BGS, Louisiana College
AS, Louisiana State University at Alexandria

Shanda Vidmar

Faculty – Science
MS, Colorado State University
BS, University of Southern Colorado

Tricia Vigil

Department Chair/Faculty – Occupational Therapy
Assistant
MBA, Colorado Technical University
BS, Utica College of Syracuse University

Daniel Vinci

Faculty – Welding, Fremont

Gayle Welch

Faculty – English/Communication
MA, University of Northern Colorado
BA, University of Houston

Gregg White

Faculty – Machining/Welding
ATA, Lower Colombia College

Jeffrey Wingham

Faculty – Biology

Roger Wolfe

Faculty – Welding
BS, Colorado State University-Pueblo

Alan Ziff

Department Chair/Faculty – Fire Science
MA, University of Alaska
BS, BA, Hartwick College

Classified Employees

Stephanie Albers
Custodian I

Manuel Alonzo
Structural Trades I

Sandra M. Archuleta
Administrative Assistant II
AAS, Pueblo Community College

Stephanie Armijo
Custodian I

Anita M. Becker
Administrative Assistant III, SCCC

Gregory C. Becker
Structural Trades II, SCCC

Gordon L. Bell
Structural Trades II, Fremont

Kenneth L. Bigelow
IT Technician II, SCCC
AAS, Pueblo Community College

Joseph R. Bongirno
Structural Trades II

Kristain N. Brunt
Sales Manager I

Alvin J. Buffalo
Structural Trades II
AAS, Pueblo Community College

Shirley D. Carey
Program Assistant I
AAS, Pueblo Community College

Robert Chontos
General Labor I, SCCC

Deborah Clement
Administrative Assistant III
AAS, Pueblo Community College

Clorinda N. Crespin
Custodian I

Amanda D. Dear
Accounting Technician III

Dorothy DeHerrera
Administrative Assistant II
AAS, Pueblo Community College

Lori C. Denney
General Professional II – HR Specialist
AAS, Pueblo Community College

Arlene K. Dockter
Custodian I

Sandra M. Duran
Custodian I

Carolee Edmondson
Accounting Technician III
BS, Adams State University
AAS, Pueblo Community College

Kent Ervin
Police Officer I

Brian K. Figueroa
Structural Trades II

Jacie Fleig
Administrative Assistant III
AAS, AGS, Pikes Peak Community College

Ann W. Flores
Administrative Assistant II

Bianca J. Flores
Administrative Assistant III

Mark Glaeser
Utility Plant Operator I

Tina T. Gold
Accounting Technician III
MBA, Colorado Technical University-Pueblo

Ronald Griffin
Materials Handler I
AAS, Certificate, Pueblo Community College

Benjamin Hahn
IT Technician, Fremont

William K. Hardwick
Laboratory Coordinator I
AAS, Pueblo Community College

Kerry Hart
Grounds & Nursery II

Deborah K. Herrera
Administrative Assistant III, Fremont
AAS, Pueblo Community College

Kiesa Howell
Administrative Assistant III, SCCC

Julie C. Jimenez
Program Assistant
BS, Regis University

Trina Jiron
Library Technician III, Fremont
BA, American Military University

Kathleen J. Kaufmann
Administrative Assistant III

Amanda Kiefer-Garcia
Custodian I

Andrew Lattie
Administrative Assistant I

Clayton LePlatt
Police Officer I

Leticia Lizardi
Accounting Technician III
AGS, Pueblo Community College

William W. Lorimor
Structural Trades II

Ynette Lucero
Accounting Technician II

Arthur A. Luna
IT Professional I
AAS, Pueblo Community College

Jennifer Mestas
Custodian I

Teresa F. Mathews
Administrative Assistant III

Henderson McClure
Custodian I

Patrick B. McGee
Materials Handler II

Cynthia A. Miller
Materials Handler III

Dwight Million
Grounds & Nursery I

Kari Monack
Administrative Assistant II

Alisa Montoya
Administrative Assistant III

Carma Moore
Administrative Assistant II, SCCC

Julianna M. Mora

Custodian I

Lisa A. Morales

Administrative Assistant III
BSBA, Adams State University
AAS, Pueblo Community College

Marcella R. Noriega

Administrative Assistant III

Patricia O'Halloran

Administrative Assistant III

Richard G. Oreskey

Security I

Tracy Overton

Library Technician II
AGS, Pueblo Community College

Mike J. Pacheco

Custodian I

Susan M. Pelto

Administrative Assistant II
MBA, University of Colorado-Denver
MLS, University of Rhode Island
BA, University of Northern Colorado

Roger Pfannenschmid

Materials Handler I

Karen Ramos

Administrative Assistant II
BSBA, Colorado State University-Pueblo
AAS, Pueblo Community College

Dawn Reitz

Library Technician II

Jose J. Renner

Police Officer I
AAS, Pueblo Community College

Charlene M. Rodenbeck

General Labor I, Fremont

Carol Rodrigues

Administrative Assistant II

Tina C. Sauer

Administrative Assistant I
AS, Pueblo Community College

Darryl Seder

Security I

Jimmie J. Sena

Grounds & Nursery I

Cindy Shimizu

Library Technician II
MLS, Emporia State University
MA, University of Colorado-Boulder

Ginger Standing

Administrative Assistant III, SCCC

Deneille Solis-Jones

Administrative Assistant III

Whitney M. Strobel

Administrative Assistant III, Fremont
AGS, Pueblo Community College

Celestino "Ray" R. Torres

Custodian I

Janet Trevithick

Administrative Assistant II

James Valdez

Custodian I

Carl M. Vasquez

IT Professional I

Kari Yalotz

Administrative Assistant III
BS, Adams State University
AAS, Pueblo Community College

Emeritus Employees

Deborah Borchers

Hired: Aug. 21, 1989
Retired: July 31, 2013
Department: English/Communications
Department Chair/Faculty
MA, University of Arizona
BA, Carleton College

Rita Friberg

Hired: Oct. 1, 1994
Retired: May 15, 2015
Department: Management & Marketing
Faculty
MS, Colorado State University
BS, Purdue University

W. Jeanne Gardner

Hired: April 9, 1984
Retired: Dec. 31, 2015
Department: Library Services
Director, Library Services
MA, BA, University of Missouri

Madelyn Guzelian

Hired: July 1, 1971
Retired: Feb. 20, 2004
Department: Business and Office Technology
Faculty
MEd, Colorado State University
BA, University of Southern Colorado

Terry Hawkins

Hired: April 2, 1984
Retired: May 31, 2003
Department: Occupational Therapy Assistant
Department Chair/Faculty
MPH, OTR, University of Oklahoma Health Science
Center
BS, University of Kansas

Carol Himes

Hired: Aug. 25, 1983
Retired: May 31, 2015
Department: Culinary Arts & Hospitality Studies
Department Chair/Faculty
MEd, Boston University
BA, Cornell University

Gail Kingrey

Hired: Aug. 24, 1987
Retired: May 13, 2016
Department: Science
Faculty
MS, New Mexico Institute of Mining & Technology
BS, University of Southern Colorado

Sara McKinnon

Hired: Aug. 24, 1987
Retired: June 30, 2014
Department: English/Communications
Faculty
MA, BA, University of Illinois
AA, Springfield College

Lucinda "Cindy" Mihelich

Hired: Jan. 9, 1990
Retired: Sept. 30, 2012
Department: Physical Therapy Assistant
Faculty
MEd, Colorado State University
BS, University of Colorado-Boulder

Carol Montoya

Hired: Dec. 1, 1990
Retired: Jan. 1, 2007
Department: Learning Center
Director, Learning Center
MA, BA, Adams State College

Rebecca Robler

Hired: Aug. 22, 1988
Retired: Aug. 31, 2007
Department: Occupational Therapy Assistant
Department Chair/Faculty
MEd, BS, OTR, Colorado State University

Florencio Ruiz

Hired: Feb. 16, 1976
Retired: Feb. 29, 2004
Department: Business and Technology
Senior Maintenance Mechanic
AAS, Southern Colorado State College

Index

A

- About PCC19-27
- Academic Advising..... 28, 58
- Academic Alert 70
- Academic Appeal 71
- Academic Calendar8-18
- Academic Integrity..... 64
- Academic Probation70-71
- Academic Quality Improvement
Program (AQIP) 23
- Academic Recognition 76
- Academic Regulations64-72
- Academic Renewal 72
- Academic Standings..... 70
- Academic Suspension70-71
- Accounting.....162, 224-226
- Accreditation3-4
- Accuplacer, How to take and prepare..... 54
- Adding Courses 59
- Admission Policy 32
- Admissions.....28, 32-39
- Admissions & Records 32
- Advanced Placement Program (AP) 43
- Advancing Academic Achievement ..226-227
- Advancing Community Care, Enhancing
Student Success (ACCESS)..... 85
- Advising and Registration28, 58-62
- Advising, Continuing Students..... 58
- Advising, New Students & Re-admit..... 58
- Affirmative Action / Equal Opportunity 99
- Alcohol Prevention Information 85
- Alternative Methods of Instruction..... 74
- American Sign Language Courses227-228
- Anthropology116-117
- Anthropology Courses228-229
- Applications, Deadlines 46
- Applied Technology 163
- Applying for Admission28, 32-39
- Apprentice Related Experience Courses . 229
- ArchEng/Construction Mgmt Courses..... 229
- Armed Forces Tuition Rates 50
- Art Courses230-234
- Art Club..... 93
- Art History Program.....117-118
- Assessment of Student Learning..... 24
- Assessment Test Scores.....55-56
- Associate Degree Nursing Club 93
- Associate Degree Requirements 75
- Associate of Applied
Science (AAS)105, 162-218
- Associate of Arts (AA).....109-111
- Associate of Arts (AA) Degree with
Transfer Articulation Agreements..112-115
- Associate of Arts (AA) with
Designation.....116-134
- Associate of General
Studies (AGS)105, 146-147
- Associate of General Studies
Technical/Pre-Professional..... 105
- Associate of General Students (AGS)
with Transfer Articulation
Agreements105, 148-153
- Associate of Science (AS) with transfer
Articulation Agreements105, 135-138
- Associate of Science (AS)
with Designation.....139-145
- Associated Student Government (ASG) 92
- Astronomy Courses 235
- Audit Grade 68
- Auditor..... 34
- Auditor Status/Full-Part-time..... 33
- Automotive Club..... 92

Automotive Collision Technology.....	164-165, 235-239
Automotive Service Technology Courses	239-243
Automotive Technology Program	166-167
Auxiliary Services	86
Awards, Types of	47-48

B

Bachelor of Applied Science	161, 180
Background and Drug Checks	103
Barber Courses	244-246
Basic Skills Assessment Test	28, 53-56
Behavioral Expectations	64
Billing	52
Biology	139-140, 246-247
Bookstore.....	30, 79
Broadcasting and Production Technology.....	168
Business Courses	248-249
Business Management	168-170
Business Program	118-119
Business Technologies	249-251
(Also see Office Administration)	

C

Cabinet.....	409
Campus Locations.....	1, 6
Campus Security Act.....	102
Campus Security Authority (CSA) Reporting a Crime	83-84
Campuses.....	26-27
Career and Technical Programs.....	105, 158
Career and Transfer Services.....	79
Carpentry Courses	252-253
Catalog Requirements	77
CCCOOnline	73
CCCS Guaranteed Transfer Courses	155-157
Certificate Programs	105, 159-160
Certificate Requirements.....	75

Certification	4
Challenge Examination	43
Change of Degree	34
Change of Major	34
Chemistry.....	140-141, 253-255
Child Care Referral Service	79
Children First	79
Cisco Certified Network Associate	172
Class Rank.....	33
Class Schedule Changes.....	59
Classes, Register	29
Classified Employees	422-424
Classified Status, Student	33
Closing the Campus	8-9
Colorado-ADN Club	93
College Closure Guidelines.....	8-9
College Composition & Reading Courses	255
Colorado Community Colleges Online (CCCOonline)	73
College Level Examination Program (CLEP)	43
College Opportunity Fund (COF)	28, 50
College Personnel.....	408-425
Colorado Libraries, Access to	82
Colorado Student Bill of Rights.....	23-24
Colorado Student Grant (CSG)	47
Commencement.....	77
Communication Courses	255-257
Communication Program	120
Complaints.....	101
Complaint Procedures.....	102
Computer Aided Drafting Courses ...	257-258
Computer Information Systems.....	148, 170-172, 258-261
Computer Access.....	82
Computer & Networking Tech Courses	261-264
Computer Science Courses.....	265
Computer Web-Based Courses	265-266
Concurrent Enrollment Programs	34
Concurrent Prerequisites	61

Confidential Crime Reporting.....	84
Construction Technology Courses.....	266-267
Continuing Academic Probation.....	70
Continuing Students, Advising.....	58
Cooperative Experience.....	74
Core Values.....	20-21
Corporate College.....	89
Cosmetology.....	173-175, 267-273
Counseling Courses.....	273-274
Course Cancellation.....	61
Course Corequisites.....	61
Course Descriptions.....	220-407
Course Load.....	61
Course Numbering.....	62
Course Prerequisites.....	61
Course Registration.....	59
Course Repeats.....	69
Course Reserves.....	82
Course Type Guideline.....	220
Credit Completion Progress.....	71
Criminal Justice..	121-122, 149-150, 274-276 (also see Law Enforcement Academy)
Crisis Intervention.....	85
Culinary Arts.....	192-193, 277-282 (also see Hospitality Studies)
Culinary Arts Club.....	93
Customer Solutions Center.....	80

D

Dance Courses.....	282-284
DANTES Subject Standardized Tests (DSST).....	43
Dean's List.....	76
Declaration of Degree or Major, Change ..	34
Degree and Certificate Programs.....	105-218
Dental Assisting.....	176-177, 284-286
Dental Assisting Student Organization (DASO) Club.....	93
Dental Hygiene.....	178-180, 286-291
Dented Circle (Philosophy) Club.....	93

Diagnostic Medical Sonography Courses.....	291-293 (also see Medical Sonography)
Diesel Power Mechanics.....	293-295
Digital Media.....	180-181
Dining Services.....	80
Directors.....	410-411
Disability Resources.....	80-81
Disability Student Support Mentoring Organization (DSSMO) Club.....	93
Disclaimer Notices.....	103-104
Driving Courses.....	295
Drop for Non-Payment.....	52
Drop for No Show.....	66
Dropping Courses.....	59-60, 64-66
Drug Checks.....	103
Drug and Alcohol Prevention Information.....	85

E

Early Childhood Education.....	113, 181-182, 296-298
Economics.....	122-123, 298-299
Electricity Ind/Commercial.....	302
Electromechanical Technology.....	183
Electronic Transcripts Receipts Process.....	41-42
Electronics.....	303-305
Elementary Teacher Education.....	112, 299-301
Eligibility for Financial Aid.....	46-47
E-mail Account, Activate.....	29
Emergency Medical Services.....	184-185, 305-310
Emeritus Employees.....	425
Energy Technology.....	310
Engineering.....	311-312
Engineering Graphic Tech Courses.....	312
Engineering Technology.....	186, 312
English Courses.....	313-315

English (Literature Emphasis) Program	123-124
Enrollment Center (Go!Zone)	28
Environmental Science Courses	315
Esthetician	175, 315
(Also see Cosmetology)	
Ethnic Studies Courses	315
Exercise Science Health Promotion Program	137

F

Facilities Maintenance Tech Courses	316
Faculty	417-421
FAFSA	46
Fair and Accurate Credit Transactions Act (FACTA)	98-99
Federal Pell Grant	47
Federal Supplemental Educational Opportunity Grant (FSEOG)	47
Federal Title IV Financial Aid Funds	48
Fees	51
FERPA	97-99
Film & Video Technology	316-317
Final Examinations	69
Financial Aid	28, 46-49
Financial Aid Deadlines	46
Financial Aid Eligibility	46-47
Financial Aid Impact	66
Financial Aid Office	46
Financial Aid Warning, Probation and Ineligibility	48
Financial Obligation	51
Fire Science Club	94
Fire Science Technology ...	187-188, 318-322
Fire Science Wildland	322-323
(Also see Wildland Firefighter)	
Floral Design Course	323
Foundation Office	20
Fremont Campus	1, 6, 26, 83
French	323-324
Full-Time Student	33

G

Gainful Employment Inform.....	46, 105, 160
Gateway to College	90
GED Classes	90
General Education Philosophy	21
Generalist Degree.....	105, 146
Geography Courses	324
Geography Information Systems Courses	325
Geology.....	142, 326
German Courses	326-327
Getting Started at PCC.....	28-30
Good Standing	70
Governance	3
Go!Zone	28
Grade Changes	68
Grade Requirements for Graduation ...	75-77
Grading System	66
Graduation, Preparing for	76
Graduation Requirements.....	44, 75
Graduation Honors.....	75
Grants	47
Grievance Process	101
Group Fitness Classes.....	84
Guaranteed Transfer (GT) Pathways Courses	155-157, 223

H

Hairstylist	175
(Also see Cosmetology)	
Haven Plus	30
Health Clinic.....	80
Health Information Technologies Program	189-191
Health Information Technology Courses	327-330
Health and Wellness Courses	330
Health Insurance	103
Health Professions Club.....	93
Health Professional Courses.....	330-332

Heavy Equipment Courses.....	332-333
Heavy Equipment Mechanics Courses	333-334
High School Students/Concurrent Enrollment Programs	34
History	124-125, 334-335
History Club	94
History of the College	24-26
Honors	75
Horticulture Courses.....	335-336
Hospitality Studies	150-151, 191-193, 336-337
Humanities Courses.....	337-339
Hybrid Courses.....	73

I

Identification Card	29
iGrad Program	55
Incomplete Grades	68
Independent Study	74
Index	426-433
Individual Fitness	84
Industrial Maintenance Technology Courses	339
Initial Standing.....	70
Institutional Student Learning Outcomes (ISLOs)	22-23
Insurance	103
Interlibrary Loans.....	82
International Baccalaureate (IB).....	43
International Student Applicants	35-37
Internship	74
Intramural Sports.....	84
Italian Courses	339-340

J

Jewelry Repair & Design Courses	340
Journalism Courses	341

L

Law Enforcement Academy	193-194, 341-342
(Also see Criminal Justice)	
Learning Center	80
Legal Information	97-104
Legal Studies.....	151-152
Letter Grades.....	67-68
Liability Insurance.....	103
Library.....	81-82
Libraries, Access to Colorado	82
Library Catalog.....	82
Library Technician	194-195, 342-343
Limited-Entry Programs.....	37-38
Literature Courses	343-344
Loans	47
Loans, Interlibrary	82
Local Anesthesia and Nitrous Oxide/Oxygen Sedation.....	179
Low Enrollment	61

M

Machining Technology	195-196, 344-347
Malpractice Insurance	103
Management Courses	347-349
Mandatory Student Fees.....	51
Manicurist	175
(Also see Cosmetology)	
Manufacturing Technology	197, 349-350
Marketing Courses	351-352
Marketing and Communications Office	82
Masonry Arts Courses	352
Mass Communications Program	152-153
Massage Therapy Courses.....	352
Math Courses	353-356
Mathematics Program.....	143-144
Medical Assistant	198-199
Medical Assistant Professional Courses	356-357

Medical Office Technology Courses	357
Med-Prep	199
Medical Sonography Program	200
(Also see Diagnostic Medical Sonography)	
Meteorology Course	357
Methods of Payment	52
Military Withdrawal.....	61
Miscellaneous Fees.....	51
Mission.....	20
Mobile Recommendations	107
Multimedia and Graphic Design	
Courses	357-361
Multiple Academic Degrees	75
Music Courses.....	361-363
myPCC eLearning.....	73

N

Nail Technician.....	363
(Also see Cosmetology)	
New Student Advising	58
New Student Orientation	29
No Show/Drop/Withdrawal Definitions	
And Effects	64-66
Notice of Non-Discrimination.....	2
Nursing.....	201-202, 363-365
Nursing Aide	203
Nursing Assistant Courses	365-366

O

Occupational Experience	74
Occupational Safety Technician	
Courses	366
Occupational Therapy	
Assistant.....	203-204, 366-368
Occupational Therapy Assistant	
(OTA) Club.....	94
Office Administration	205-206
(Also see Business Technologies)	
Online Courses.....	73
Online Resources	82

Orientation, New Student	29
Other Benefit Programs	49
Outdoor Leadership Adventure Program..	84
Outdoor Studies Course	369

P

Panther One Card (ID)	29
Panther Players Club	94
Paralegal Courses	369
Parking Permit	29
Part-time Student.....	33
Pathway Courses, CCCS Guaranteed	
Transfer.....	155-157
PCC Online	73
PCC Promise	23
Personnel.....	408-425
Petroleum Technology Courses.....	370
Pharmacy Technician.....	207, 370-371
Phi Theta Kappa Club	94
Philosophy	126, 371-372
Philosophy Club	93
Phlebotomy Technician	207-208
Physical Education Courses	372-375
Physical Therapist Assistant	
.....	208-209, 375-377
Physical Therapist Assistant (PTA) Club	94
Physics Courses	377-378
Placement Test	28
Police Department.....	83
Political Science	127-128, 378-379
Portfolio of Learning Outcomes	44
Practice Standards.....	71-72
Pre-College Programs.....	90
Pre-Engineering Program	138
PrepStep	54
President's Leadership Program (PLP)	94
President's List.....	76
Printing Technology Courses.....	379
Prior learning Assessment (PLA)	43
Privacy Rights	97-99

Process Technology Courses	379
Products, All.....	107
Professional Communication Program....	154
Professional/Technical Staff	412-416
Program Specific Requirements	107
Project Access	85
PS Care Club.....	94
Psychiatric Technician	210, 379-380
Psychology	128-129, 144-145, 380-383
Public Safety	83
Public Service Course.....	383
Published Guides	44
Pueblo Campus	1, 6, 26, 83
Purposes	21

R

Radio and Television Courses	384-385
Radiologic Technology.....	211-212, 385-387
Records Office.....	41
Recreation Center.....	84
Reading Courses	387-388
Re-admission to PCC.....	35
Re-admit Students	58
Real Estate Courses	388
Recruitment, Office of	83
Reference.....	82
Referral Services	85
Refunds.....	52
Registration	29, 59
Reporting a Crime.....	83
Residency Classification.....	38-39
Respiratory Therapy Program	212-213
Respiratory Care Club	95
Respiratory Care Courses	388-389
Restricted Courses.....	223

S

Scholarships.....	48
Science Courses	390
Science, Technology, Engineering Mathematics (STEM) Club	95

Selective Service Registration Requirements	39
Semester Length.....	8
Services for Students.....	79-87
Sexual Harassment Notice.....	99-100
Skills USA Club	95
Small Business Development Center.....	20
Small Business Management Courses	390-392
Social Work.....	114-115, 392
Sociology.....	130-131, 392-394
Solomon Amendment	99
Southwest Campuses	1, 6, 27, 83
Space Grant Robotics Team Club	95
Spanish	131-132, 394-396
Spectrum Club	95
Sport Vehicle Technology Courses ...	396-397
Standardized Tests	43
STEM Center	85-86
Student Ambassador Program	95
Student Bill of Rights, Colorado	23
Student Chapter American Dental Hygienists Association (SCADHA) Club	95
Student Center & Auxiliary Services.....	86
Student Classification	33
Student Computer Access	81
Student Fees.....	51
Student Health Insurance.....	103
Student Life	92-96
Student and Judicial Affairs.....	86
Student Malpractice & Liability Ins.	103
Student Organizations.....	92-96
Student Orientation	29
Student Privacy Rights.....	97-99
Student Records	32
Student Right-to-Know.....	102
Students Helping Students Club.....	93
Studio Art Program.....	133-134
Surgical Technology.....	213-214, 397-399
Surveys and/or Research.....	102
Suspension.....	70
Suspension Rules.....	70

T		
Table of Contents	7	
Technology Recommendations	106	
Test Scores.....	53	
Testing Center.....	81	
Textbooks	30	
Transfer Degrees	44, 105-153	
Transfer Services	79	
Transferring AA or AS Degrees to Other Institutions.....	44-45	
Transferring Credits	41-45	
Travel and Tourism Courses	401	
TRIO Student Support Services/ Project Success (TRIO SSS).....	86	
TRIO Student Support Services Club	96	
TRIO Upward Bound	86	
TRIO Upward Bound Club.....	96	
TRIO Veterans Upward Bound.....	87	
Tuition and Fees	29, 50-52	
Tutoring	81	
Two-way Interactive Classrooms.....	87	
Types of Credit.....	43	
U		
Unclassified Status, Students	33	
Undeclared Students, Advising.....	58	
Upholstery Courses	401	
V		
Vehicle, Register	29	
Veteran Service Group Club	96	
Veterinary Technology Courses.....	402	
Veterans Administration Benefits	49	
Vice President’s List.....	76	
Violence Against Women Act (VAWA)	100	
Vision	20	
Visual Communications	215	
Theatre Courses.....	399-401	
Thoreau Well Read (Book Club).....	96	
Title IV Financial Aid Funds.....	48	
Title IX Statement.....	101	
Transcripts.....	45	
Transfer Appeals Process	42	
Transfer Applicants.....	35	
W		
Warning Rules	72	
Welcome to PCC.....	5	
Welding	216, 402-405	
Welding Technologies	217	
Western Undergraduate Exchange (WUE).....	49	
Wildland Firefighter (Also see Fire Science Technology)	218	
Wind Turbine Technology Courses	405	
Withdrawal Policy.....	66	
Withdrawing from Courses	60, 64-66	
Women’s Studies Courses.....	406	
Work Study.....	47	