Governance & Accreditation

Notice of Non-Discrimination

Pueblo Community College prohibits discrimination, harassment, or retaliation on the basis of sex, gender, race, color, age, creed, national or ethnic origin, ancestry, physical or mental disability, veteran or military status, pregnancy or related conditions, marital status, religion, genetic information, gender identity, sexual orientation, sex characteristics, sex stereotypes, gender expression, or any other class or category protected under applicable local, state or federal law (also known as "civil rights" laws) in connection with its employment practices or educational programs and activities. Pueblo Community College will take appropriate steps to ensure that the lack of English language skills will not be a barrier to admission and participation in vocational education programs.

The College has designated the Vice President of Human Resources as its AA/EEO and Title IX Coordinator, with the responsibility to coordinate the college's Civil Rights Compliance Activities and Grievance Procedures. If you have any questions, please contact the Vice President of Human Resources, 900 W. Orman Avenue, Central Administration Building, Room 111, telephone 719.549.3220, email pcchr@pueblocc.edu. You may also contact the Office for Civil Rights, U.S. Department of Education, Region VIII, Federal Office Building, 1244 North Speer Blvd., Suite 310, Denver, CO 80204; phone: 303.844.3417.

Aviso de No Discriminación

Pueblo Community College prohíbe la discriminación, el acoso o las represalias basadas en el sexo, género, raza, color, edad, credo, origen nacional o étnico, ascendencia, discapacidad física o mental, estatus de veterano o militar, embarazo o condiciones relacionadas, estado civil, religión, información genética, identidad de género, orientación sexual, características sexuales, estereotipos de género, expresión de género, o cualquier otra clase o categoría protegida bajo las leyes locales, estatales o federales aplicables (también conocidas como leyes de "derechos civiles") en relación con sus prácticas laborales o programas y actividades educativas. Pueblo Community College tomará las medidas adecuadas para garantizar que la falta de habilidades en el idioma inglés no sea un obstáculo para la admisión y participación en los programas de educación vocacional.

El Colegio ha designado al Vicepresidente de Recursos Humanos como su Coordinador de AA/EEO y Título IX, con la responsabilidad de coordinar las Actividades de Cumplimiento de los Derechos Civiles y los Procedimientos de Quejas del colegio. Si tiene alguna pregunta, comuníquese con el Vicepresidente de Recursos Humanos, 900 W. Orman Avenue, Edificio de Administración Central, Sala 111, teléfono 719.549.3220, correo electrónico pcchr@pueblocc.edu. También puede comunicarse con la Oficina de Derechos Civiles, Departamento de Educación de EE. UU., Región VIII, Edificio Federal, 1244 North Speer Blvd., Suite 310, Denver, CO 80204; teléfono: 303.844.3417.

Governance

Pueblo Community College is governed by the State Board for Community Colleges and Occupational Education, which comprises 13 state system community colleges. The Colorado Department of Higher Education (CDHE) is the central policy and coordinating board for all public institutions of higher education and establishes policy on legislative, academic and fiscal matters.

Accreditation

Pueblo Community College is a member of and accredited by The Higher Learning Commission, 230 South LaSalle St., Suite 7-500, Chicago, IL 60604; website; phone: 800.621.7440. In addition, several programs hold approval or accreditation from national and state level associations and agencies:

Dental Hygiene Program

Accredited by the Commission on Dental Accreditation of the American Dental Association, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education, 211 E. Chicago Ave., Chicago, IL 60611-2678; phone: 312.440.2500.

Emergency Medical Services Program-Paramedic

The Pueblo Community College Emergency Services Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Commission on Accreditation of Allied Health Education Programs
(727) 210-2350
www.caahep.org

Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP)
(214) 703-8445
www.coaemsp.org

Machining Technology Program

Accredited by The National Institute for Metalworking skills, 10565 Fairfax Boulevard, Suite 10, Fairfax, VA 22030; phone: 703.352.4971; website.

Medical Coding Certificate Program

Accredited by the American Health Information Management Association (AHIMA), 233 N. Michigan Ave., 21st Floor, Chicago, IL 60601-5809; phone: 312.233.1100; website.

NSA/DHS National Centers of Academic Excellence in Cyber Defense Two-Year Education (CAE-2Y)

Accredited by the National Center of Academic Excellence in Cyber Defense Education 2 Year Education Program criteria for measurement. Jointly sponsored by the National Security Agency and Department of Homeland Security.

Nursing Aide

Approved by the Colorado State Board of Nursing.

Nursing – Associate Degree Nursing Program

Accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, GA 30326; phone: 404.975.5000, website. Approved by the Colorado State Board of Nursing.

Occupational Therapy Assistant Program

The Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 7501 Wisconsin Avenue, Suite 510E Bethesda, MD 20814 (301-652-6611). www.acoteonline.org.

Physical Therapist Assistant Program

The Physical Therapist Assistant Program at Pueblo Community College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Ave, Suite 100, Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: accreditation@apta.org; website: www.capteonline.org. If needing to contact the program/institution directly, please call 719-549-3433 or email Margaret.Oreskovich@pueblocc.edu.

Psychiatric Technician Program

Approved by the Colorado State Board of Nursing.

Respiratory Care Program

Accredited by the Commission on Accreditation for Respiratory Care (CoARC), 12248 Harwood Road, Bedford, TX 76021-4244; phone: 817.283.2835.

Surgical Technology Program

The PCC Surgical Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs, 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763; phone: 727.210.2350; upon the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA).

Certification

The following programs have received certification as designated:

Automotive Service Technology

Certified by National Technicians Education Foundation (NATEF) under the Automotive Service Excellence (ASE) guidelines, 101 Blue Seal Drive S.E., Suite 101, Leesburg, VA 20175; phone: 703.669.6650.

Certified by Automotive Youth Educational System (AYES) guidelines, 2701 Troy Center Drive, Suite 450, Troy, MI 48084; phone: 888.339.2937.

Law Enforcement Academy

Certified by the Colorado Department of Law, Criminal Justice Section – Colorado POST, Ralph L. Carr Colorado Judicial Center, 1300 Broadway, 9th Floor, Denver, CO 80203; phone: 720.508.6721; fax: 866.858.7486.

Welcome to Pueblo Community College

Welcome to Pueblo Community College. We're thrilled that you've chosen PCC to pursue further education. You're about to embark on an exciting journey, and we are here to support you every step of the way. At PCC, our dedicated faculty and staff are committed to helping you achieve more than you ever imagined. We have designed our programs, workforce development, community education, and student success initiatives with you in mind.

As one of the 13 schools in the Colorado Community College System – the largest higher education network in the state – we serve a vast area of over 11,000 square miles. Our main campus is in Pueblo, but we also have branch campuses in Cañon City and Mancos, as well as a site in Durango. We understand that traditional classrooms and schedules don't work for everyone, which is why we offer hybrid and online learning options to fit your needs.

PCC is proud to be a Hispanic-Serving Institution where diversity is celebrated. Our diversity, equity, and inclusion plan guides us in creating an environment where everyone feels welcome and respected. We're constantly learning how to better serve our diverse student body and are dedicated to recruiting faculty, staff, and students who reflect the rich diversity of our region. And yes, we have a lot of fun bringing together the many cultures represented here!

We provide valuable resources to ensure your success. Our learning services include free tutoring, study groups, test-taking strategies, and accelerated basic skills development. These aren't just extra perks – they're essential tools to help you succeed, take on more coursework, and reduce academic stress.

Financial assistance is also available, including scholarships, loans, and one-on-one counseling to help you navigate the application process. We offer numerous financial support opportunities with straightforward applications but remember to apply by the deadlines to be eligible.

Our academic, career, and transfer advisors are here to guide you on your academic journey. Whether you plan to transfer to another school or jump straight into the workforce, our advisors will help you create a plan tailored to your goals.

Student services at PCC are designed to enrich your experience and provide critical support. From Project ACCESS and the Panther Student Pantry to peer mentoring and help with child care or transportation, we have partnerships with community agencies to meet your needs. Our health clinic in Pueblo offers professional medical staff and discounted health services. Get involved in our many student activities and clubs – it's a fantastic way to connect and engage with the PCC community.

We encourage you to start planning for success by scheduling a visit to one of our campuses and exploring our website. Welcome to the PCC family – we can't wait to see what you'll achieve!

With warm regards,

President Chato Hazelbaker

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 Campus (Serving Archuleta, Dolores, La Plata, Montezuma and San Juan counties)
33057 Highway 160
Mancos, CO 81328
970.564.6200

Durango Site
Durango High School
2320 Main Avenue
Durango, CO 81301
970.385.2000

Bayfield Site
110 E. South St.
Bayfield, CO 81122
970.385.2070

Academic Calendar

Current Academic Semester

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 (10 weeks), Summer I (5 weeks) and Summer II (5 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.

Pueblo Community College		
Academic Calendar **AY2024-25 (202510, 202520, 202530)**		
PUEBLO - FREMONT - PCCONLINE - SOUTHWEST		
Summer 2024	**202510**	
Full Term Session (Not CCCOnline)		
Registration Begins	Monday	March 11, 2024

Pueblo Community College

Non-Payment Warning	Wednesday	May 15, 2024
Tuition Due Date	Wednesday	May 22, 2024
Non-Payment Warning	Wednesday	May 22, 2024
Registration Ends	Friday	May 24, 2024
Memorial Day	Monday	May 27, 2024
Classes Begin	Tuesday	May 28, 2024
Schedule Adjustment Period	Tues - Wed	May 28-29, 2024
Non-Payment Warning	Wednesday	May 29, 2024
End of Refund Period/Census	Thursday	June 6, 2024
Juneteenth	Wednesday	June 19, 2024
Independence Day Holiday	Thursday	July 4, 2024
Last Day to Withdraw	Tuesday	July 23, 2024
Classes End	Monday	August 5, 2024
Grades Due	Tuesday	August 6, 2024
First 4 Week Session (Not CCCOnline)		
Registration Begins	Monday	March 11, 2024
Registration Ends	Friday	May 24, 2024
Classes Begin	Tuesday	May 28, 2024
Schedule Adjustment Period	Tuesday	May 28, 2024
End of Refund Period/Census	Monday	June 3, 2024
Juneteenth	Wednesday	June 19, 2024
Last Day to Withdraw	Monday	June 24, 2024
Classes End	Monday	July 1, 2024
Grades Due	Tuesday	July 2, 2024

Pueblo Community College

Second 4 Week Session (Not CCCOnline)		
Registration Begins	Monday	March 11, 2024
Classes Begin	Tuesday	July 2, 2024
Schedule Adjustment Period	Tuesday	July 2, 2024
Independence Day Holiday	Thursday	July 4, 2024
End of Refund Period/Census	Monday	July 8, 2024
Last Day to Withdraw	Monday	July 29, 2024
Classes End	Monday	August 5, 2024
Grades Due	Tuesday	August 6, 2024
Fall 2024	**202520**	
Full-Term Classes (Not CCCOnline)		
Registration Begins	Monday	March 11, 2024
Chairs Return	Monday	August 12, 2024
Faculty Return	Tuesday	August 13, 2024
Tuition Due Date	Wednesday	August 14, 2024
Non-Payment Warning	Wednesday	August 14, 2024
Faculty Professional Development Day	Thursday	August 15, 2024
Registration Ends	Friday	August 16, 2024
Full-Term Classes Begin	Monday	August 19, 2024
Schedule Adjustment Period	Monday - Friday	Aug. 19-23, 2024
Non-Payment Warning	Wednesday	August 21, 2024
Non-Payment Warning	Wednesday	August 28, 2024
Labor Day Holiday	Monday	September 2, 2024

Pueblo Community College

End of Refund Period/Census	Wednesday	September 4, 2024
Midterm Week	Mon - Fri	Oct. 7-11, 2024
Last Day to Withdraw	Thursday	November 14, 2024
Thanksgiving Break (No Classes)	Mon-Sat	Nov. 25-30, 2024
Thanksgiving	Thursday	November 28, 2024
Final Week of Classes	Mon - Sat	Dec. 9-14, 2024
Last Faculty Day	Friday	December 13, 2024
Classes End	Saturday	December 14, 2024
Grades Due	Monday	December 16, 2024
Holiday Break (Offices Closed)	Wednesday - Wednesday	Dec. 25, 2024 - Jan. 1, 2025
All Staff Return	Thursday	January 2, 2025
Fall I (Not CCCOnline)		
Registration Begins	Monday	March 11, 2024
Faculty Professional Development Day	Thursday	August 15, 2024
Registration Ends	Friday	August 16, 2024
Session Begins	Monday	August 19, 2024
Schedule Adjustment Period	Mon-Tues	Aug. 19-20, 2024
End of Refund Period/Census	Monday	August 26, 2024
Labor Day Holiday	Monday	September 2, 2024
Last Day to Withdraw	Tuesday	October 1, 2024
Classes End	Saturday	October 12, 2024
Grades Due	Monday	October 14, 2024
Fall II (Not CCCOnline)		

Pueblo Community College

Registration Begins	Monday	March 11, 2024
Session Begins	Monday	October 14, 2024
Schedule Adjustment Period	Mon-Tues	Oct. 14-15, 2024
End of Refund Period/Census	Tuesday	October 22, 2024
Thanksgiving Break (No Classes)	Mon-Sat	Nov. 25-30, 2024
Last Day to Withdraw	Monday	December 2, 2024
Last Faculty Day	Friday	December 13, 2024
Classes End	Saturday	December 14, 2024
Grades Due	Monday	December 16, 2024
Spring 2025	**202530**	
Full Term Classes (Not CCCOnline)		
Registration Begins	Monday	October 28, 2024
All Staff Return	Thursday	January 2, 2025
Chairs Return	Monday	January 13, 2025
Faculty Return	Wednesday	January 15, 2025
Tuition Due Date	Wednesday	January 8, 2025
Non-Payment Warning	Wednesday	January 8, 2025
Faculty Professional Development Day	Thursday	January 16, 2025
Registration Ends	Friday	January 17, 2025
Full-Term Classes Begin	Tuesday	January 21, 2025
Schedule Adjustment Period	Monday - Friday	January 21-24, 2025
Non-Payment Warning	Wednesday	January 15, 2025
Non-Payment Warning	Wednesday	January 22, 2025
Midterm	Monday - Saturday	Mar. 10-15, 2025

Pueblo Community College

End of Refund Period/Census	Wednesday	Feb. 5, 2025
Spring Break ALL Campuses	Monday - Saturday	Mar. 24-29, 2025
Last Day to Withdraw	Thursday	April 17, 2024
Final Week of Classes	Monday - Saturday	May 12-17, 2025
Last Faculty Day	Friday	May 16, 2025
Commencement (Pueblo and Fremont Campus)	Thursday	May 15, 2025
Classes End	Saturday	May 17, 2025
Commencement (PCC Southwest)	Saturday	May 17, 2025
Grades Due	Monday	May 19, 2025
Spring I (Not CCCOnline)		
Registration Begins	Monday	October 28, 2024
Faculty Professional Development Day	Thursday	January 16, 2025
Registration Ends	Friday	January 17, 2025
Session Begins	Tuesday	January 21, 2025
Schedule Adjustment Period	Tuesday - Wednesday	Jan. 21-22, 2025
End of Refund Period/Census	Monday	January 28, 2025
Last Day to Withdraw	Wednesday	March 5, 2025
Classes End	Saturday	March 16, 2025
Grades Due	Monday	March 17, 2025
Spring II (Not CCCOnline)		
Registration Begins	Monday	October 28, 2024
Session Begins	Monday	March 17, 2025
Schedule Adjustment Period	Monday - Tuesday	Mar. 17-18, 2025

Pueblo Community College		
End of Refund Period/Census	Tuesday	March 25, 2025
Spring Break ALL Campuses	Monday - Saturday	Mar. 24-29, 2025
Last Day to Withdraw	Monday	May 5, 2025
Commencement (Pueblo and Fremont Campus)	Thursday	May 15, 2025
Classes End	Saturday	May 17, 2025
Commencement (PCC Southwest)	Saturday	May 17, 2025
Grades Due	Monday	May 19, 2025

Degree and Certificate Programs

Click here for more information on Degree and Certificate Programs

Associate of Arts

Click here for the Associate of Arts Degree Requirements

Anthropology, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Anthropology prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a bachelor's degree in anthropology. A degree in anthropology offers many career and educational opportunities. Careers in anthropology include museum education, field and medical research, higher-education teaching, public health, environmental assessment, community studies coordination, ethnic and cultural studies and field studies in archaeology.

Program Description

Anthropology is the study of the evolution of human society, life and culture. Specifically, anthropology answers the questions of how people lived, what they thought and how they interacted with their particular environment. Studying how societies have developed and changed from the past to the present, anthropology provides a critical understanding of the world today and how the future world may evolve.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with Designation in Anthropology, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (32-33 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3** and a GT Pathways Writing course (GT-CO3) *

Mathematics (3-4 Credits)

- One GT Pathways course (GT-MA1), prefer MAT 1260

University of Colorado Denver

- University of Colorado Denver requires either: MAT 1260 **or** MAT 1340

Western State Colorado University

- Western State Colorado University requires MAT 1340

Natural and Physical Sciences (8 Credits)

- Select two GT Pathway (GT-SC1) *

Arts and Humanities (6 Credits)

Select two GT Pathway courses from any category:

- Arts and Humanities (GT-AH1) *
- Literature and Humanities (GT-AH2) *
- Ways of Thinking (GT-AH3) *
- Foreign Languages (GT-AH4) *

Social and Behavioral Sciences (6 Credits)

(Select two GT Pathway courses from any category):

- Economics or Political Systems: (GT-SS1) *
- Geography (GT-SS2) *
- Human Behavior, Culture, or Social Frameworks: (GT-SS3) *

History (3 Credits)

- Select one GT Pathways History course (GT- HI1) *

Additional Required Anthropology Courses (22 Credits)

Please Note: Additional ANT courses beyond the four courses (13 credit hours) identified above may not count toward the Anthropology major at the receiving 4-year institutions.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1001 - Cultural Anthropology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 101 Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1003 - Introduction to Archaeology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 107 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, the works of selected archaeologists, and major archaeological theories. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English
Formerly ANT 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (3 Credits)

Select one GT Pathway course from any category:

- Arts and Humanities (GT-AH1) *
- Literature and Humanities (GT-AH2) *
- Ways of Thinking (GT-AH3) *
- Foreign Languages (GT-AH4

ANT course (3 Credits)

- Select one additional GT Pathway course: Social and Behavioral Science (GT-SS3) *

Social and Behavioral Sciences (3 Credits)

(Select on GT Pathway course from any category):

- Geography (GT-SS2) *
- Human Behavior, Culture, or Social Frameworks: (GT-SS3) *

Electives (5-6 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Colorado State University-Ft. Collins (B.A. Anthropology)
- Fort Lewis College (B.A. Anthropology)
- Metropolitan State University of Denver (B.A. Anthropology)
- University of Colorado, Boulder (B.A. Anthropology)
- University of Colorado, Colorado Springs (B.A. Anthropology)
- University of Colorado, Denver (B.A. Anthropology)
- University of Northern Colorado (B.A. Anthropology)
- Western State Colorado University (B.A. Anthropology)

Art History, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in Art History prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) or Bachelor of Fine Arts (BFA) degree in Art or Art History. Students who opt for the Bachelor of Arts in Art History can choose to work in several occupational fields including museums, galleries, government, research and academia. Once a BA or BFA is completed, students may pursue a higher or graduate degree in Art, if interested.

Program Description

This program introduces the student to the field of Art History and includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Art History. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Art History will be ready to complete the last half of a BA or BFA in Art History at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31-32 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3** and a GT Pathways Approved (GT-CO3) *

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GT-MA1) *, prefer MAT 1240: Mathematics for the Liberal Arts

Natural and Physical Sciences (7 or 8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1, GT-SC2) *. One of these courses must include a laboratory component (GT-SC1) *

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities Courses from any category (GT-AH1, GT-AH2, GT-AH3, GTAH4) *, **EXCEPT** those courses listed in the additional required courses section below.

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT- SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Art History Courses (18 Credits)

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1201 - Drawing I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 121 Investigates the various approaches and media that students need to develop drawing skills and visual perception.

ART 1002 - Visual Concepts 2-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 131 Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

ART 1003 - 3-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 132 Introduces the fundamentals of three-dimensional design, form, and space. The course applies the elements and principles of design to three-dimensional problems.

ART 1113 - Art History

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 207 Introduces the concepts necessary to understand modern visual art, with an emphasis on world art of the 20th century. This course surveys world art of the 20th century, including Modernism to Post-Modernism. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

Electives (10-11 Credits)

Determined by transferring institution;

Note: Students planning to transfer to Colorado State University-Fort Collins will be required to complete a 200-level foreign language for completion of the BA in Art History.

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Colorado Mesa University (B.F.A. Art, Art History concentration)
- Colorado State University-Ft. Collins (B.A. Art, Art History concentration)
- Colorado State University-Pueblo (B.A. Art; Art History Emphasis
- Metropolitan State University of Denver (B.A. Art History, Theory, and Criticism)
- University of Colorado, Boulder (B.A. Art History)
- University of Colorado, Colorado Springs (B.A. Visual and Performing Arts, Art History option)
- University of Colorado, Denver (B.A. Fine Arts, Art History emphasis)
- University of Northern Colorado (B.A. Art and Design, Art History emphasis)
- Western State Colorado University (B.A. Art, Art History and Theory emphasis)

Business, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Business prepares students to transfer to a bachelor's degree business program.

Program Description

Students who complete an AA degree and the prescribed curriculum in the articulation agreement and are admitted (with no academic deficiencies that require additional coursework) to a receiving institution participating in this agreement are guaranteed the following:

Junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in the degree program covered by this articulation agreement. Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution.

Program Requirements

Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation stated deadlines. In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Business advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with Designation in Business, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

Required Courses General Education (32 credits)

(Written) Communication (6 credits)

- A GT Pathways-approved CO1 course (GT-CO1) and a GT Pathways-approved CO2 course (GT-CO2)

OR

- A GT Pathways-approved CO2 course (GT-CO2) and a GT Pathways-approved CO3 course (GT-CO3)

Mathematics (4 credits)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OR

MAT 1320 - Finite Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appropriate placement scores
Formerly MAT 123 Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as

statistics when time permits. This course is primarily intended for business, life science, or social science majors. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OR

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

- **OR** a higher-level Calculus course
  Note: University of Colorado Colorado Springs and University of Northern Colorado require MAT 1400

Arts & Humanities (6 credits)

PHI 2005 - Business Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 205 Examines major ethical theories and then applies ethical decision-making criteria to various moral issues and challenges in a business environment. This course includes issues such as job discrimination, worker's rights, consumerism, advertising, whistle-blowing, product safety, responsibility to the environment, as well as compassionate and fair responsibility to society. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

AND

- One GT Pathways Arts & Humanities course from the following AH categories: GT-AH1, GT-AH2, GT-AH3, GT-AH4

History (3 credits)

- One GT Pathways History course (GT-HI1)

Social & Behavioral Sciences (6 credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and

industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

Natural & Physical Sciences (7 credits)

- Two GT Pathways Natural & Physical Sciences courses (GT-SC1, GT-SC2), one must be with a laboratory (GT-SC1)

Additional Required Courses (21-23 Credits)

ACC 1021 - Accounting Principles I

Credit(s): 4
Lecture Hour(s): 4
Formerly ACC 121 This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

ACC 1022 - Accounting Principles II

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): ACC 1021
Formerly ACC 122 This course continues the application of accounting principles to business organizations. Major topics include corporate equity and debt financing, investments, cash flow statements, financial analysis, budgeting, cost and managerial accounting.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

BUS 2026 - Business Statistics

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 226 Focuses on statistical study, sampling, organizing and visualizing data, descriptive statistics, probability, binomial distributions, normal distributions, confidence intervals, linear regression, and correlation. Intended for business majors.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Electives (5-7 credits)

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. Business Administration, emphasis in in Advertising, Business Teacher Education, General Business or International Business; B.S. Business Administration, emphasis in Accounting, Agribusiness, Economics, Finance, General Business, Health Care Administration, Management, Management Information Systems, Marketing, or Small Business Management)
- Colorado Mesa University (Bachelor of Business Administration (B.B.A.) concentrations in Business Economics, Emerging Markets, Energy Management/Landman, Entrepreneurship, Finance, Hospitality Management, Human Resource management, Information Systems, Insurance, Management, Managerial Informatics, or Marketing)
- Colorado Mountain College (as four-year institution) (B.S. Business Administration)
- Colorado State University-Ft. Collins (B.S. Business Administration)
- Colorado State University – Global Campus (B.S. Accounting, Business management, Healthcare Administration and management, Human Resource Management, Information Technology Management, Management Information Systems and Business Analytics, Marketing, Project Management)
- Colorado State University-Pueblo (B.S. Business Administration, majors in Management, Accounting, or Economics)
- Fort Lewis College (B.A. Business Administration, Business Administration option)
- Metropolitan State University of Denver (B.S. Accounting, Computer Information Systems, Finance, Management, Marketing
- University of Colorado, Boulder (B.S. Business Administration)
- University of Colorado, Colorado Springs (B.S. Business, emphasis in Accounting, Business Administration, Finance, Human Resources Management, Information Systems, International Business, Management, Marketing PGA Golf Management, Service Management, or Sport Management)

- University of Colorado, Denver (B.S. Business Administration, emphasis in Accounting, Finance, Financial Management, Human Resources Management, Information Systems, International Business, Management, or Marketing)
- University of Northern Colorado (B.S. Business Administration, all emphasis)
- Western State Colorado University (B.A. Business Administration)

Communication, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in Communication prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) degree in Communication. Students who opt for the Bachelor of Arts in Communication can choose to work in several occupational fields, including business, advertising, education, media, journalism or public relations. Once a BA is completed, students may pursue a higher or graduate degree in Communication, if interested.

Program Description

This program introduces the student to the discipline of Communication and includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Communication. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Communication will be ready to complete the last half of a BA in Communication at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of

critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3** and a GT Pathways Advanced Writing Course (GT-CO3) *

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GTMA1) *, prefer MAT 1240: Mathematics for the Liberal Arts

Natural and Physical Sciences (7 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1, GT-SC2) *. At least one of these courses must include a laboratory component (GT-SC1) *

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

COM 2300 - Intercultural Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 220 Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

- select one other GT Pathways Social and Behavioral course from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Communication Courses (18 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 2220 - Group Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 217 Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

- Select one three-credit course with a COM prefix **Credit(s): 3**

Select two GT Pathways courses from either: (6 Credits)

- History (GT-HI1) *, **or** Social and Behavioral Sciences (GT-SS1, GT-SS2, **or** GT-SS3) *

Electives (11 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Colorado State University-Ft. Collins (B.A. Communication Studies)
- Colorado State University-Global Campus (B.S. Communication)
- Metropolitan State University of Denver (B.A. Speech Communication, Organizational Communication emphasis)
- University of Colorado, Boulder (B.A. Communication)
- University of Colorado, Colorado Springs (B.A.
- Communication, General Communication Studies emphasis)
- University of Colorado, Denver (B.A. Communication)
- University of Northern Colorado (B.A. Communication Studies)
- Western State Colorado University (B.A. Communication Arts, Communication emphasis)

Criminal Justice, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Criminal Justice prepares students to transfer as juniors to a four-year institution in Colorado to pursue a bachelor's degree in criminal justice. Graduates can seek a career in federal, state and local criminal justice agencies. This includes correctional institutions, juvenile corrections and varied treatment facilities, law enforcement agencies, courts, private security and forensic investigation work.

Program Description

Courses in the criminal justice degree provide an in-depth analysis of the three main components of the criminal justice system, law enforcement, the judicial system and corrections, with special emphasis on criminology, substantive criminal law and constitutional law. The AA degree coursework requires students learn reading and comprehension skills, written and verbal communication skills, and cultural diversity awareness.

Program Requirements

Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation stated deadlines. In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Criminal Justice advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer. To earn an AA degree with Designation in Business, you must complete at least 60 college-level credits, as described below:

Disclaimer

If you have any prior arrests and/or drug/alcohol history, you should discuss this history with a Criminal Justice advisor prior to beginning courses toward this degree. Neither PCC nor the Criminal Justice Department or advisors will be held liable for your decision to continue in pursuit of the degree if you have such a history. Many criminal justice employers will not hire students with a past history of arrests or convictions regardless of the type of offense.

Your entrance into any criminal justice course of study, or your subsequent graduation, is no guarantee, explicit or implied, that you are employable in the criminal justice field.

Many criminal justice and related agencies require certain standards prospective employees must meet at the application stage. Job applications will ask if you have ever been arrested for any offense, either misdemeanor or felony. If you have, your prospective employer may deny your application. You may also be required to take psychological tests, lie detector tests, medical tests and physical fitness tests to determine if you are suited to a particular position.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31-33 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3** and a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (3-4 Credits)

- One GT Pathways course (GT-MA1, prefer MAT 13: Introduction to Statistics, except:

University of Colorado

- University of Colorado - Colorado Springs **prefers** MAT 1240 - Mathematics for the Liberal Arts: GT-MA1;

Colorado Mesa University

- Colorado Mesa University **requires** either MAT 1240 - Mathematics for the Liberal Arts: GT-MA1 **or** MAT 1340 - College Algebra: GT-MA1;

University of Northern Colorado

- University of Northern Colorado **requires** MAT 1260 - Introduction to Statistics: GT-MA1

Natural and Physical Sciences (7-8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1 **or** GT-SC2) * At least one of these courses must include a laboratory component (GT-SC1) *

Arts & Humanities (6 Credits)

(Select two courses from two different categories):

- GT-AH1, GT-AH2, GT-AH3, GT-AH4 *

Social and Behavioral Sciences (6 Credits)

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

- select one additional GT Pathways Human Behavior, Culture, or Social Frameworks course (GT-SS3) *

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Courses (27 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1010 - Intro to Criminal Justice: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 110 Introduces the basic components of the criminal justice system in the United States. Concepts of

crime, crime data, victimization, perspectives, and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1025 - Policing Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 125 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 1045 - Correctional Process

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 145 Examines the history of corrections in America from law enforcement through the administration of justice, probation, prisons, correctional institutions, and parole. This course examines the theories, rationales for punishment, and the political system in which corrections, as a component part of the criminal justice system, needs to operate. The course emphasizes legal, sociological, psychological, and other interdisciplinary approached that effect the operation of a correctional system.

Choose Two Courses from the Following (6 Credits)

CRJ 1027 - Crime Scene Investigation

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 127 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 1035 - Judicial Function

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 135 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 2005 - Principles of Criminal Law

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 205 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 2009 - Criminal Investigation I

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 209 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 2030 - Criminology

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 230 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 2031 - Introduction to Forensic Science and Criminalistics

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 231 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 2035 - Delinquent Behavior

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 235 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 2036 - CRJ Research Methods

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 236 Focuses on the formulation of research questions covering crime and justice, research designs, data collection, and the interpretation and reporting of these data in criminological and justice-system settings. Course content also includes experimental and non-experimental research designs, probability and non-probability sampling techniques, and construction of scales and indexes for research purposes.

CRJ 2068 - Criminal Profiling

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 268 Examines the theories of crime causation in relationship to criminal profiling. Studies include the investigation of serial killers, their motivations, behaviors, and identification of psychological and sociological explanations related to criminal acts.

Choose Three Courses from the Following (9 Credits)

Note: If these courses are applied to this second section of the Prescribed Curriculum (Additional Required Courses) for credit, they may **not** be applied to the first section of the Prescribed Curriculum (General Education Requirements) for credit.

CNG 2058 - Digital Forensics

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): CNG 1032
Formerly CNG 258 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.

COM 2220 - Group Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 217 Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1025 - American State and Local Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 125 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 is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSY 2770 - Introduction to Forensic Psychology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 207 Provides an overview of forensic psychology. This course explores both current research and practice in police psychology, criminal psychology, victimology, correctional psychology, and the interface of psychology and the courts. This course facilitates an understanding of the numerous careers related to forensic psychology and how to prepare for them.

PSY 2107 - Human Sexuality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 217 Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

Electives (0-2 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Colorado Mesa University (B.A. Criminal Justice; Criminal Justice or Law Enforcement concentrations)
- Colorado State University – Global Campus (B.S. Criminal Justice and Law Enforcement Administration; B.S Human Services
- Metropolitan State University of Denver (B.S. Criminal Justice & Criminology)
- University of Colorado, Colorado Springs (B.A. Criminal Justice)
- University of Colorado, Denver (B.A. Criminal Justice)
- University of Northern Colorado (B.A. Criminal Justice)

Criminology, AA (CSU-P Transfer)

See list of Department Chairs on the Personnel page.

Career Opportunities

The criminal justice program prepares you to transfer as a junior to a four-year institution to pursue a Bachelor of Science degree in sociology or criminal Justice, after which you can pursue a career in federal, state and local adult correctional institutions, juvenile corrections and treatment facilities, law enforcement, forensics, private security and private investigations.

Program Description

The criminal justice program provides an in-depth analysis of the three components of the criminal justice system (law enforcement, the judicial system and corrections) with special emphasis on criminology, substantive criminal law, procedural criminal law and constitutional law. It places a strong emphasis on reading and comprehension skills, written and verbal communication skills and empathic awareness of cultural diversity.

Disclaimer

If you have any prior arrests and/or drug/alcohol history, you should discuss this history with a Criminal Justice advisor prior to beginning courses toward this degree. Neither PCC nor the Criminal Justice Department or advisors will be held liable for your decision to continue in pursuit of the degree if you have such a history. Many criminal justice employers will not hire students with a past history of arrests or convictions regardless of typology of offense.

Your entrance into any criminal justice course of study, or your subsequent graduation, is no guarantee, explicit or implied, that you are employable in the criminal justice field. Further, if you cannot be placed and/or remain in the course CRJ 2080 - Cooperative Education/internship, after two good-faith attempts at placement, neither PCC nor its employees accept responsibility in respect to your inability to complete or meet fulfillment requirements of the degree.

Many criminal justice and related agencies require certain standards prospective employees must meet at the application stage. Job applications will ask if you have ever been arrested for any offense, either misdemeanor or felony. If you have, your prospective employer may deny your application. You may also be required to take psychological tests, lie detector tests, medical tests and physical fitness tests to determine if you are suited to a particular position.

Program Requirements

Entrance Requirements:

This is an open enrollment program.

Graduation Requirements:

A grade of "C" or higher is required in each course.

Total Credits: 60

General Education Core Requirements (39 Credits)

Communication (9 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Mathematics (4 Credits)

MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 120 Highlights connections between mathematics and the society in which we live and is intended for liberal arts majors. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (8 Credits)

Select two courses:

AST 1110 - Astronomy I With Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 101 Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 102 Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT- SC1 category.

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and CHE 1011

Formerly CHE 102 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, Intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1005 - Chemistry in Context with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 105 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MET 1050 - General Meteorology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly MET 150 Provides an introduction to general meteorology and atmospheric sciences. Includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Examines the development of weather system, such as storm systems, hurricanes, weather fronts, and cloud development. Stresses the concepts of climatology. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic

motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (6 Credits)

Choose six credits from two different disciplines.

ART 1110 - Art Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 110 Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1113 - Art History

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 207 Introduces the concepts necessary to understand modern visual art, with an emphasis on world art of the 20th century. This course surveys world art of the 20th century, including Modernism to Post-Modernism. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

FRE 2011 - French Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FRE 1012
Formerly FRE 211 Continues the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

FRE 2012 - French Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FRE 2011
Formerly FRE 212 Continues the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category.

GER 2011 - German Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): GER 1012
Formerly GER 211 Continues the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the German language. This course is conducted predominantly in German. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

GER 2012 - German Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): GER 2011
Formerly GER 212 Continues the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the German language. This course is conducted predominantly in German. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

HUM 1021 - Humanities: Early Civilization: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 121 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among diverse cultures, including European and non-European, from the prehistoric to the early medieval era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1022 - Humanities: Medieval - Modern: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 122 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the

visual, performing, and literary arts, emphasizing connections among global cultures from the medieval to the early modern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1023 - Humanities: Modern World: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 123 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the European Enlightenment to the postmodern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021.
Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2001 - World Literature to 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 201 Examines significant writings in world literature from the ancients to the seventeenth century. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2002 - World Literature After 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 202 Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2005 - Race. Ethnicity, and Culture in U.S. Literature: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 205 Examines the cultural, historical, and social contexts impacting multiple ethnic American identities through critical reading and analysis. This course focuses on significant works by authors who identify as African American, Native American, Latino/a, Asian American, and other ethnicities. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2011 - American Literature to Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.

Formerly LIT 211 Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2012 - American Literature After Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 212 Examines American literary works from 1865 to the present, distinguishing among literary themes, genres, and schools of thought that illustrate historical and social contexts across a multicultural spectrum. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

MUS 1020 - Music Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 120 Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western, and non-Western historical style periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1021 - Music History Medieval Thru Classical Period: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 121 Provides an historical survey of Western art music from the Middle Ages into the Classical period, including styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1022 - Music History Early Romantic Period to the Present: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 122 Provides an historical survey of Western art music connecting the classical period to the Romantic period and following to the present. This course includes the study of styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1014 - Comparative Religions: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 114 Introduces the major religions of the Eastern and Western world. Covers Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Utilizes methods of religious studies to understand the historical development of each religious tradition as well its worldview and teachings. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2014 - Philosophy of Religion: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 214 Focuses on the critical analysis and evaluation of the fundamental concepts, ideas, and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of ultimate reality, arguments concerning God`s existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience, and religious diversity. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

SPA 2011 - Spanish Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): SPA 1012
Formerly SPA 211 Continues Spanish Language II in the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

SPA 2012 - Spanish Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): SPA 2011
Formerly SPA 212 Continues Spanish Language III in the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish

language. This course is conducted predominantly in Spanish. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

THE 1005 - Theatre Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 105 Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2011 - Development of Theatre Greek-Renaissance: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 211 Surveys the history and development of theatrical practices from Ancient Greece to the Renaissance as well as non-western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2012 - Development of Theatre Restoration to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 212 Surveys the history and development of theatrical practices from Restoration to the present as well as non-Western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

History (3 credits)

Select three credits in the HIS prefix..

HIS 1110 - The World: Antiquity-1500: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 111 Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This course focuses on common cultural trends. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1120 - The World: 1500-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 112 Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. This course focuses on developing, practicing, and strengthening skills historians

use while constructing knowledge and studying a diverse set of narratives through the perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 101 Explores trends within events, peoples, groups, ideas, and institutions in Western Civilization from antiquity to 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1320 - Western Civ: 1650-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 102 Explores trends within events, peoples, groups, ideas, and institutions in Western civilization since 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2015 - 20th Century World History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 247 Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states

since the late nineteenth century. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1category. GT-HI1

HIS 2080 - Internship

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department approval required.
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.

HIS 2115 - American Indian History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Formerly HIS 208 Analyzes historical and socio-cultural change for Native Americans from pre-colonial America to the present, emphasizing those processes and relations with non-Native Americans which have contributed to current conditions. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2135 - Colorado History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 225 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, mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2300 - The Middle Ages:GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 255 Examines political, social, cultural, economic and intellectual developments in Europe, Byzantium and the Islamic world from the collapse of Rome through the Renaissance, approximately A.D. 400-1400. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Social and Behavioral Sciences (9 Credits)

Select nine credits in at least two disciplines.

ANT 1001 - Cultural Anthropology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 101 Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English
Formerly ANT 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

GEO 1005 - World Regional Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 105 Examines the spatial distribution of environmental and societal phenomena in the world's regions. Environmental phenomena includes topography, climate, and natural resources. Societal phenomena includes patterns of population and settlement, religion, ethnicity, language, and economic development. This course also analyzes the characteristics that define world regions and distinguishes them from each other. This course examines the relationships between physical environments and human societies, and examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

GEO 1006 - Human Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 106 Introduces geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. This course examines the relationships between physical environments and human societies. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 101 Explores trends within events, peoples, groups, ideas, and institutions in Western Civilization from antiquity to 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1320 - Western Civ: 1650-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 102 Explores trends within events, peoples, groups, ideas, and institutions in Western civilization since 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1110 - The World: Antiquity-1500: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 111 Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This course focuses on common cultural trends. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1120 - The World: 1500-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 112 Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through the perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2015 - 20th Century World History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 247 Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states since the late nineteenth century. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1category. GT-HI1

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSC 2020 - Introduction to Political Science: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 105 Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments and processes, and international relations. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and

national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2105 - Psychology of Gender: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 205 Examines gender comparisons in work, courtship, family life, and sexual behavior throughout the life span. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2107 - Human Sexuality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 217 Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2222 - Psychology of Death and Dying: GT-SS3

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly PSY 227 Examines philosophies of life and death emphasizing dying, death, mourning, and the consideration of one's own death. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2441 - Child Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 238 Focuses on the growth and development of the individual, from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 102 Examines the basic concepts, theories, and principles of sociology, including topics of family, religion, education, politics, the economy, health, demography, the environment and social movements through a local and global lens. Analyzes and interprets socio-historical as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 2005 - Sociology of Family Dynamics: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 205 Offers a critical exploration of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations locally and globally. Explores the stability and evolution of the family, along with current trends and a range of family forms. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2015 - Contemporary Social Problems: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 215 Investigates current social issues that result in societal problems. Focuses on numerous areas including, but not limited to, the loss of civil liberties, concentration of media ownership, gender discrimination, hate crimes, poverty, hunger, environmental degradation, racism and prejudice, as well as social change. Addresses ways to ameliorate these social ills. GT-SS3

SOC 2016 - Sociology of Gender: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 216 Examines major trends and theoretical approaches within the field of sociology of gender including the impact of intersecting social markers such as race, class, sexuality and gender identities. Addresses gender performance, stratification and inequalities in micro and macro settings in the U.S. Focuses on social movements relating to identities and institutional inequalities. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

WST 2000 - Introduction to Women's Studies: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly WST 200 Explores the interdisciplinary field of women's studies. This course is an examination of the following topics: the historical basis of gender inequality; the history of social movements for gender equality and women's studies; women's achievements throughout history in various professional and academic fields; women's social, economic, religious, health and political status in the U.S. and around the globe; gender relations;

intersectionality; cultural, media and artistic representations of women. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer Courses, GT-SS3.

Core Curriculum Requirements (21 Credits)

CRJ 1010 - Intro to Criminal Justice: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 110 Introduces the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives, and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1025 - Policing Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 125 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 1035 - Judicial Function

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 135 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 1045 - Correctional Process

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 145 Examines the history of corrections in America from law enforcement through the administration of justice, probation, prisons, correctional institutions, and parole. This course examines the theories, rationales for punishment, and the political system in which corrections, as a component part of the criminal justice system, needs to operate. The course emphasizes legal, sociological, psychological, and other interdisciplinary approached that effect the operation of a correctional system.

CRJ 2005 - Principles of Criminal Law

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 205 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 2010 - Constitutional Law

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 210 Focuses on the powers of government as they are allocated and defined by the United States Constitution. The course includes intensive analysis of United States Supreme Court decisions.

CRJ 2030 - Criminology

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 230 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.

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Colorado State University Global (BS Criminal Justice and Law Enforcement Administration
- Colorado State University, Pueblo (Sociology with a Criminology emphasis)

Early Childhood Teacher Education, AA (with Designation)

See list of Department Chairs on the Personnel page.

Total Credits: 60

General Education Requirements: 35

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1220 - Integrated Math I: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 155 Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include the structure of number systems, an analysis of numerical operations, set properties, numerical and geometric patterns, and a variety of problem solving skills. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1230 - Integrated Math II: MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 156 Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include probability, statistics, measurement, Euclidean geometry, and algebraic methods. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

LIT 2055 - Children's Literature

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Placement at the Composition I level
Formerly LIT 255 Examines the criteria for selecting appropriate literature for children. Explores literature through a variety of genres, age levels, values taught through literature, and literary and artistic qualities of various texts. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT:AH2

- Any GT-AH2 course **Credit(s): 3**

GEO 1005 - World Regional Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 105 Examines the spatial distribution of environmental and societal phenomena in the world's regions. Environmental phenomena includes topography, climate, and natural resources. Societal phenomena includes patterns of population and settlement, religion, ethnicity, language, and economic development. This course also analyzes the characteristics that define world regions and distinguishes them from each other. This course examines the relationships between physical environments and human societies, and examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

OR

GEO 1006 - Human Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 106 Introduces geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. This course examines the relationships between physical environments and human societies. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

OR

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge

and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Core Curriculum Requirements: 25

ART 1110 - Art Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 110 Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

OR

MUS 1020 - Music Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 120 Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western, and non-Western historical style periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

OR

THE 1005 - Theatre Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 105 Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

PSY 2442 - Child and Adolescent Psychology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 237 Explores human development from conception through adolescence, emphasizing physical cognitive, emotional, and psychosocial factors.

EDU 2211 - Introduction to Education

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College readiness in English
Formerly EDU 221 Focuses on the historical, social, political, philosophical, cultural, and economic forces that shape the United States public school system. This course includes current issues of education reform, technology as it relates to education, and considerations related to becoming a teacher in the state of Colorado. The course addresses the educational theory and practices from Early Childhood Education (ECE) through secondary education.

EDU 2341 - Multicultural Education

Credit(s): 3
Lecture Hour(s): 3
Formerly EDU 234 Explores racial, ethnic, cultural, and socioeconomic groups to gain an understanding of equity, diversity, and inclusion in communities and education. This course provides opportunities to contextualize multicultural perspectives in society and their impact on the education system.

EDU 2611 - Teaching, Learning and Technology

Credit(s): 3
Lecture Hour(s): 3
Formerly EDU 261 Explores integration of technology instruction into teaching practices used in preschool through postsecondary (P-21) educational settings for all curriculum areas of content. This course reviews a variety of technologies with an emphasis on increasing student learning and retention of knowledge. The course also explores combining technology with several instructional methodologies to promote professional teacher dispositions related to technology-rich teaching.

EDU 2088 - Practicum II

Credit(s): 0-12
Lecture Hour(s): 0-12
Formerly EDU 288 Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the education facility and with the direct guidance of the instructor.

- Must meet with academic advisor; courses are determined by transfer institution. **Credit(s): 9**

Economics, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Economics prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a bachelor's degree in economics. Bachelor degree curriculums allow students to prepare for graduate school, for teaching careers, or for employment in areas that require economic analysis, such as actuarial science, investment banking, finance or statistics. Students would also be prepared to work in commercial banks, finance companies and insurance companies.

Program Description

The Associate of Arts Degree with Designation in Economics is designed for students who want to transfer to a four-year college or university to pursue a baccalaureate degree in economics. Completion of the AA degree completes the first two years of an economics bachelor's degree and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in economics.

Program Requirements

In addition to the requirements listed below, you must:

1. Earn a minimum of 60 semester hours of course work
2. Earn a minimum of 15 graded semester hours at PCC
3. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC business advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with Designation in Economics, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (37 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1 **or** GT-SC2), one must be a laboratory (GT-SC1) *

Arts and Humanities (9 Credits)

(Select three courses from any category):

- GT-AH1, GT-AH2, GT-AH3, GT-AH4 *

Social and Behavioral Sciences (6 Credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Courses (3 Credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Electives (20 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.S. Business Administration; Economics emphasis)
- Colorado State University-Fort Collins (B.A. Economics)
- Fort Lewis College – (B.A. Economics; Economics option)
- Metropolitan State University of Denver (B.A. Economics)
- University of Colorado, Boulder (B.A. Economics)
- University of Colorado, Colorado Springs (B.A. Economics)
- University of Colorado, Denver (B.A. Economics)
- University of Northern Colorado (B.A. Economics)
- Western State Colorado University (B.A. Economics)

Elementary Teacher Education, AA (with Transfer Articulation Agreement)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts degree with an emphasis in Elementary Education prepares you to transfer as a junior to a four-year institution in Colorado in order to become an elementary teacher.

Program Description

This program introduces you to the field of education. The course work comprises general education requirements common to all Colorado two- and four-year institutions. It also meets appropriate Colorado Model Content standards for elementary education. Upon transfer, if you have earned the AA degree with an emphasis in Elementary Education, you will be ready to apply for admission to a four-year institution's teacher education program.

Before beginning to take classes, you must meet with PCC's teacher education faculty advisor to plan a course of study and to examine the list of approved credits for each four-year institution in Colorado.

Students interested in majoring in education need to identify the four-year college/university to which they plan to transfer. Each individual institution requires different curriculum electives for graduation.

There are no current statewide articulation agreements in secondary or K-12 education, but students can still effectively pursue these options at PCC.

Emphasis in Elementary Education (Grades K-6)

If you want to teach grades K through 6, you may pursue an Associate of Arts degree with Elementary Education emphasis.

Emphasis in Secondary Education (Grades 7-12)

If you want to teach grades 7 through 12, you should identify the four-year college or university to which you intend to transfer and the appropriate curriculum. You may pursue an Associate of Arts degree with Secondary Education emphasis in one of the following licensure areas:

- English
- Math
- Science
- Social Science (History/Political Science)
- Spanish

Emphasis in K-12 Education

If you would like to teach in the K-12 content areas of art, music or physical education, you should pursue an Associate of Arts degree at PCC. Your advisor will help you select the electives that will be required for your bachelor's degree.

Total Credits: 60

General Education Core Requirements (32 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (6 Credits)

MAT 1220 - Integrated Math I: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 155 Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include the structure of number systems, an analysis of numerical operations, set properties, numerical and geometric patterns, and a variety of problem solving skills. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1230 - Integrated Math II: MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 156 Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include probability, statistics, measurement, Euclidean geometry, and algebraic methods. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (8 Credits)

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (3 Credits)

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021.

Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

or

LIT 2001 - World Literature to 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 201 Examines significant writings in world literature from the ancients to the seventeenth century. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

or

LIT 2002 - World Literature After 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 202 Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

or

LIT 2011 - American Literature to Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 211 Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

Social and Behavioral Sciences (6 Credits)

GEO 1005 - World Regional Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 105 Examines the spatial distribution of environmental and societal phenomena in the world's regions. Environmental phenomena includes topography, climate, and natural resources. Societal phenomena includes patterns of population and settlement, religion, ethnicity, language, and economic development. This course also analyzes the characteristics that define world regions and distinguishes them from each other. This course examines the relationships between physical environments and human societies, and examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

History (3 Credits)

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Education Requirements (9 Credits)

Please note: If these credits are not required for the major at a receiving 4-year institution, they will be applied to the bachelor's degree as elective credits towards graduation. Please check with the receiving institution to determine in which way these courses will be applied.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

EDU 2211 - Introduction to Education

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College readiness in English
Formerly EDU 221 Focuses on the historical, social, political, philosophical, cultural, and economic forces that shape the United States public school system. This course includes current issues of education reform, technology as it relates to education, and considerations related to becoming a teacher in the state of Colorado. The course addresses the educational theory and practices from Early Childhood Education (ECE) through secondary education.

PSY 2441 - Child Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 238 Focuses on the growth and development of the individual, from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

Other Required Courses (19 Credits)

Determined by transferring institution.

Students must meet with an academic advisor to determine which specific other courses are required pertaining to their emphasis area and transfer institution.

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:Adams State University (B.A. Interdisciplinary Studies)

- Colorado Mesa University (B.A. Liberal Arts)
- Colorado Mountain College (B.A. Interdisciplinary Studies)
- Colorado State University-Pueblo (B.S. Liberal Studies)
- Fort Lewis College (B.A. Elementary Education)
- Metropolitan State University of Denver (B.A. Human Development, B.A. Elementary Education)
- University of Colorado, Boulder (B.A. Elementary Education)
- University of Colorado, Colorado Springs (B.A. Inclusive Elementary Education, B.A. Biology, B.A. English Literature, B.A. Geography and Environmental Studies, B.A. History, or B.A. Spanish)
- University of Colorado, Denver (B.A., Elementary Education emphasis; B.A. Education and Human Development – Elementary Education)
- University of Northern Colorado (B.A. Elementary Education)
- Western State Colorado University (B.A. Elementary Education, CLD emphasis)

English, Literature Emphasis, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in English prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) degree in English. Students who opt for the Bachelor of Arts in English can choose to work in a wide variety of occupational fields including teaching, journalism, law, publishing, medicine and the fine arts. Once a BA is completed, students may pursue a higher or graduate degree in English, if interested.

Program Description

This program introduces the student to the discipline of English and includes the course work to meet general education requirements that are common to all Colorado four-year institutions. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in English will be ready to complete the last half of a BA in English at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (34 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and**

ENG 2001 - Composition III: Writing for Public Discourse GT-CO3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1022
Formerly ENG 201 Provides the skills necessary to enter into higher-level undergraduate academic discourse or professional workplace writing. This course extends rhetorical knowledge and develops critical reading, thinking, and writing strategies in multiple specialized areas of discourse beyond what is encountered in previous composition courses. This is a statewide Guaranteed Transfer course in the GT-CO3 category. GT-CO3

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GT- MA1) *, prefer MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Natural and Physical Sciences (7 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1) *. At least one of these courses must include a laboratory component (GT-SC1) *.

Arts and Humanities (9 Credits)

Note: Courses from the Literature and Humanities category (GT-AH2) may **not** be used to meet this requirement.

- Select three GT Pathways Arts and Humanities courses

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Courses (18 Credits)

Verbal Communication (3 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Select five GT Pathways Arts and Humanities Literature (LIT) courses within the GT-AH2 category (15 Credits)

Note: Students are required to take a total of five (5) LIT courses (15 credits), four (4) of which must be at the 200-level. Please consult with your receiving institution regarding best choices for literature courses.

Electives (8 Credits)

Determined by transferring institution.

Recommended elective:

ENG 2021 - Creative Writing I

Credit(s): 3
Lecture Hour(s): 3
Formerly ENG 221 Examines techniques for creative writing by exploring imaginative uses of language through creative genres (fiction, poetry, and other types of creative production such as drama, screenplays, graphic narrative, or creative nonfiction) with emphasis on the student's own unique style, subject matter and needs. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.A. English, Liberal Arts emphasis)
- Colorado Mesa University (B.A. English, Literature concentration)
- Colorado State University-Fort Collins (B.A. English)
- Colorado State University-Pueblo (B.A. English)
- Ft. Lewis College (B.A. English, General Option)
- Metropolitan State University of Denver (B.A. English)
- University of Colorado, Boulder (B.A. English)
- University of Colorado, Colorado Springs (B.A. English)
- University of Colorado, Denver (B.A. English, Literature emphasis)
- University of Northern Colorado (B.A. English, Liberal Arts emphasis)
- Western State Colorado University (B.A. English)

History, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in History prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts degree (BA) in history. Students who opt for a bachelor's degree in history can choose to work in several occupational fields including education at multiple levels, historical and/or corporate research, public history and many other related areas of social sciences. Once a BA is completed, students may pursue a higher or graduate degree in history, if interested.

Program Description

The Associate of Arts Degree with Designation in History introduces students to the field of history and includes the course work to meet general education requirements that are common to all Colorado four-year institutions. The degree is designed for students who want to transfer to a four-year college or university to pursue a bachelor's degree in history. Completion of the AA degree completes the first two years of a bachelor's degree in history, and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in history.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with a designation in history, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (34 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (3 Credits)

- Select from a GT Pathways Mathematics course (GT-MA1) *, prefer MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Natural and Physical Sciences (7 Credits)

One of these courses must include a laboratory component

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1 **or** GT-SC2) *

Arts and Humanities (9 Credits)

- Select three from a GT Pathway course from any category (GT-AH1, GT-AH2, GT-AH3, **or** GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two from a GT Pathway course from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 101 Explores trends within events, peoples, groups, ideas, and institutions in Western Civilization from antiquity to 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

or

HIS 1110 - The World: Antiquity-1500: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 111 Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This course focuses on common cultural trends. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Additional Required History Courses (15 Credits)

HIS 1320 - Western Civ: 1650-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 102 Explores trends within events, peoples, groups, ideas, and institutions in Western civilization since 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

or

HIS 1120 - The World: 1500-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 112 Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through the perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

- Choose one additional GT Pathways HIS course (GT-HI1) *

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Electives (11 Credits)

Determined by transferring institution
Note: Students planning to transfer to University of Colorado Boulder must take either HIS 1310 or HIS 1320 to fulfill this requirement.

Students planning to transfer to CSU-Fort Collins are advised to complete at least two semesters of one college-level foreign language.

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. History, Anthropology, & Political Science: History)
- Colorado Mesa University (B.A. History; History or Secondary Education concentrations)
- Colorado State University-Ft. Collins (B.A. History; General History concentration)
- Colorado State University-Pueblo (B.A. History; General emphasis; B.S. History; General emphasis)
- Fort Lewis College (B.A. History; United States Option)
- Metropolitan State University of Denver (B.A. History)
- University of Colorado, Boulder (B.A. History)
- University of Colorado, Colorado Springs (B.A. History)
- University of Colorado, Denver (B.A. History)
- University of Northern Colorado (B.A. History; Liberal Arts emphasis)
- Western State Colorado University (B.A. History)

Philosophy, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in Philosophy prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) degree in Philosophy. Students who opt for the Bachelor of Arts in Philosophy can choose to work in several occupational fields, including law, government, business, science, clergy, teaching and academia. Once a BA is completed, students may pursue a higher or graduate degree in Philosophy, if interested.

Program Description

This program introduces the student to the field of Philosophy and includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Philosophy. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Philosophy will be ready to complete the last half of a BA in Philosophy at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing Course (GT-CO3) *

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GT-MA1) *, prefer MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Natural and Physical Sciences (7 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1, GT-SC2) *. At least one of these courses must include a laboratory component (GT-SC1) *

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH1, GT-AH2, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Philosophy Courses (15 Credits)

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Choose Two Courses from the Following: (6 Credits)

PHI 2014 - Philosophy of Religion: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 214 Focuses on the critical analysis and evaluation of the fundamental concepts, ideas, and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of ultimate reality, arguments concerning God`s existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience, and religious diversity. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2018 - Environmental Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 218 Analyzes theories of the value of the natural world. Topics may 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; and the connection between moral and political values and economic policies. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2005 - Business Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 205 Examines major ethical theories and then applies ethical decision-making criteria to various moral issues and challenges in a business environment. This course includes issues such as job discrimination, worker's rights, consumerism, advertising, whistle-blowing, product safety, responsibility to the environment, as well as compassionate and fair responsibility to society. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2020 - Philosophy of Death and Dying: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 220 Explores the major philosophical questions surrounding death and dying, the metaphysical arguments for and against the existence of the soul, life after bodily death, the major ethical theories and their relation to issues of physician-assisted suicide, care for the dying, the grieving process, death as expressed in aesthetics and contemporary society, as well as the existential contributions concerning meaning of life and the meaning of death. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Electives (14 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Colorado State University-Fort Collins (B.A. Philosophy, General Philosophy concentration)
- Fort Lewis College (B.A. Philosophy)
- Metropolitan State University of Denver (B.A. Philosophy)
- University of Colorado, Boulder (B.A. Philosophy)
- University of Colorado, Colorado Springs (B.A. Philosophy)
- University of Colorado, Denver (B.A. Philosophy)
- University of Northern Colorado (B.A. Philosophy)

Political Science, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Political Science prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts degree (BA) in political science. Students who opt for a bachelor's degree in political science may choose to work in federal, state and local governments, law, business, international organizations, nonprofit organizations, campaign management and polling, journalism, electoral politics, research or education. Once a BA is completed, students may pursue a higher or graduate degree in political science if interested.

Program Description

The Associate of Arts Degree with Designation in Political Science includes the course work to meet general education requirements that are common to all Colorado four-year institutions. The degree is designed for students who want to transfer to a four-year college or university to pursue a bachelor's degree in political science. Completion of the AA degree completes the first two years of a bachelor's degree and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in political science.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with a designation in political science, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (32 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (3 Credits)

- Select from a GT Pathways Mathematics course (GT-MA1), prefer MAT 1260 *

Natural and Physical Sciences (8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1) *

Arts and Humanities (6 Credits)

Select two GT Pathway courses from any category

- (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Political Science Courses (12 Credits)

PSC 2020 - Introduction to Political Science: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 105 Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments and processes, and international relations. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

- POS 205 - OFFERED ONLINE
- POS 225 - OFFERED ONLINE

Electives (16 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. History, Anthropology, & Political Science: Political Science)
- Colorado Mesa University (B.A. Political Science)
- Colorado State University-Fort Collins (B.A. Political Science)
- Colorado State University-Pueblo (B.A. Political Science; B.S. Political Science)
- Fort Lewis College (B.A. Political Science)
- Metropolitan State University of Denver (B.A. Political Science)
- University of Colorado, Boulder (B.A. Political Science)
- University of Colorado, Colorado Springs (B.A. Political Science)
- University of Colorado, Denver (B.A. Political Science)
- University of Northern Colorado (B.A. Political Science)
- Western State Colorado University (B.A. Politics & Government)

Psychology, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Psychology prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts degree (BA) in psychology. Much of the coursework for BA and BS degrees in psychology tends to overlap (for example, social science requirements and core courses), but those with a BA degree are geared toward more modern scientific psychology – how we adapt to rapidly changing social and physical environments. Students who opt for the Bachelor of Arts in Psychology can choose to work in the human services field (crisis intervention or case management) or in business areas (human resources, personnel or management). Once a BA is completed, students may pursue a higher degree in psychology, if interested.

Program Description

This program introduces the student to the field of psychology and includes the coursework to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of psychology. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Psychology will be ready to complete the last half of a BA in Psychology at a four-year institution.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with a designation in psychology, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (34-36 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT C03 course

Mathematics (3-4 Credits)

- One GT Pathways course (GT-MA1), prefer MAT 1260 - Introduction to Statistics: GT-MA1, except:

Colorado Mesa University

- Colorado Mesa University requires either MAT 1240; or MAT 1340;

Colorado State University-Pueblo

- Colorado State University-Pueblo prefers MAT 1340;

Fort Lewis College

- Fort Lewis college requires MAT 1260;

University of Colorado Boulder

- University of Colorado Boulder requires MAT 1340 or higher;

University of Colorado, Colorado Springs

- University of Colorado, Colorado Springs requires MAT 1340;

Western State Colorado University

- Western State Colorado University requires MAT 1340

Natural and Physical Sciences (7-8 Credits)

- One GT Pathways Biology course. Must be GT-SC1 course with lab
- One GT Pathways GT-SC1 course of the student's choosing.

Arts and Humanities (9 Credits)

No more than two courses from any one category

- Select three GT Pathways Arts & Humanities Courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- (Select two GT Pathways Social & Behavioral Science courses (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathway course (GT-HI1) *

Additional Required Psychology Courses (18 Credits)

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

- Three GT Pathways Psychology courses (GT-SS3) **Credits(s): 9** *

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Electives (6-8 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. Psychology; Developmental, Clinical, Sport Psychology, or Psychology emphasis)
- Colorado Mesa University (B.A. Psychology; Psychology or Counseling Psychology concentrations)
- Colorado State University-Pueblo (B.A. Psychology)
- Fort Lewis College (B.A. Psychology)
- Metropolitan State University of Denver (B.A. Psychology)
- University of Colorado, Boulder (B.A. Psychology)
- University of Colorado, Colorado Springs (B.A. Psychology)
- University of Colorado, Denver (B.A. Psychology)
- University of Northern Colorado (B.A. Psychology)
- Western State Colorado University (B.A. Psychology)

Public Health, DwD

See list of Department Chairs on the Personnel page.

Total Credits: 60

Fall-Year 1 (15)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Spring-Year 1 (17)

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Fall-Year 2 (14)

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): ENG 1021.
Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Spring-Year 2 (16)

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2222 - Psychology of Death and Dying: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 227 Examines philosophies of life and death emphasizing dying, death, mourning, and the consideration of one's own death. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2333 - Health Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 240 Focuses on an overview of the scientific study of attitudes, behaviors, and personality variables related to health, illness, and bodily systems. The course emphasizes the interaction of biological, psychological, and social factors that cause illness and influence its treatment and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2005 - Sociology of Family Dynamics: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 205 Offers a critical exploration of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations locally and globally. Explores the stability and evolution of the family, along with current trends and a range of family forms. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Social Work, AA (with Transfer Articulation Agreement)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts degree with an emphasis in Social Work prepares students to transfer as a junior to a four-year institution in order to earn a bachelor's degree in social work. Social workers are professionals who are specially trained to work with people to provide a variety of services to individuals, families, groups or even communities. Social workers are employed in many different settings including schools, corrections, victims programs, child welfare, nursing homes, foster care agencies, domestic violence shelters and homeless programs.

Program Description

This program introduces students to the field of social work and includes general education requirements as well as specific courses in the area of social work. The courses included in this program are part of an articulation agreement with Colorado State University-Pueblo. Upon transfer to CSU-Pueblo, students who have earned the AA degree with an emphasis in social work will be ready to apply for admission to the social work program.

Program Requirements

Students interested in the field of social work should be aware that social workers must adhere to a strict code of ethics and values that are meant to protect the dignity and worth of clients and the profession. Social work students should be prepared to challenge their own attitudes, values and beliefs in order to be successful in the field.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathways Courses*

General Education Requirements (38 Credits)

Communication (9 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Mathematics (3 Credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (8 Credits)

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the

impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

- Select one additional GT Pathways Natural and Physical Science course. The course must include a laboratory component (GT-SC1) *

Arts and Humanities (9 Credits)

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

- Select two additional GT Pathways courses from either Arts and Expression, Literature and Humanities, Ways of Thinking **or** Foreign Languages (GT-AH1, AH2, AH3, **or** AH4) *

Social and Behavioral Sciences (9 Credits)

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Electives (28 Credits)

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

ETH 2024 - Introduction to Chicano Studies

Credit(s): 3
Lecture Hour(s): 3
Formerly ETH 224 Introduces students to skills development in multicultural education. Covers Chicano history, migration and labor, education, law and Chicano culture.

HWE 1062 - Health and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly HWE 111 Explores the six components of wellness: physical, social, intellectual, spiritual, emotional, and occupational. Topics include health risks, wellness behaviors, and personal behavior change in the areas of nutrition; exercise; substance abuse; stress management; cardiovascular and cancer risk factors; the aging process; and violence, death, and dying in our society. Provides tools to complete self-assessments and develop a wellness program for a healthier lifestyle across a lifespan.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SWK 1000 - Introduction to Social Work

Credit(s): 3
Lecture Hour(s): 3
Formerly SWK 100 Introduces students to the philosophy of the social work profession including the knowledge, values, ethics, roles and skills inherent to generalist social work.

SWK 2010 - Human Behavior in the Social Environment I

Credit(s): 3
Lecture Hour(s): 3
Formerly SWK 201 Focuses on the person in the environment throughout the life span with an examination of the relationship between biological, psychological, social, spiritual and cultural systems.

SWK 2020 - Human Behavior in the Social Environment II

Credit(s): 3
Lecture Hour(s): 3
Formerly SWK 202 Focus in this course is on an understanding and analysis of larger social systems which include the family, groups, communities and organizations. Emphasis is on social systems as an organizing theoretical framework for understanding social functioning and change.

SWK 2050 - Social Welfare in the U.S.

Credit(s): 3
Lecture Hour(s): 3
Formerly SWK 205 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.

WST 2000 - Introduction to Women's Studies: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly WST 200 Explores the interdisciplinary field of women's studies. This course is an examination of the following topics: the historical basis of gender inequality; the history of social movements for gender equality and women's studies; women's achievements throughout history in various professional and academic fields; women's social, economic, religious, health and political status in the U.S. and around the globe; gender relations; intersectionality; cultural, media and artistic representations of women. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer Courses, GT-SS3.

Sociology, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Sociology prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts degree (BA) in sociology. Students who opt for a bachelor's degree in sociology may choose to work in the criminal justice system, business and industry, research and planning, agencies, government, education or advocacy. Once a BA is completed, students may pursue a higher or graduate degree in sociology if interested.

Program Description

The Associate of Arts Degree with Designation in Sociology includes the course work to meet general education requirements that are common to all Colorado four-year institutions. The degree is designed for students who want to transfer to a four-year college or university to pursue a bachelor's degree in sociology. Completion of the AA degree completes the first two years of a bachelor's degree and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in sociology.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA Degree with Designation in Sociology, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (35-36 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT C03 course

Mathematics (3-4 Credits)

- One GT Pathways course (GT-MA1), prefer MAT 1260 - Introduction to Statistics: GT-MA1: except:

Adams State University

- Adams State University prefers MAT 1340 - College Algebra: GT-MA1:

Colorado Mesa University

- Colorado Mesa University requires either MAT 1240 - Mathematics for the Liberal Arts: GT-MA1 **or** MAT 1340 - College Algebra: GT-MA1;

University of Colorado Denver

- University of Colorado Denver requires MAT 1340 - College Algebra: GT-MA1 **or** MAT 1320 - Finite Mathematics: GT-MA1 **or** MAT 1260 - Introduction to Statistics: GT-MA1;

Western State Colorado University

- Western State Colorado University requires MAT 1240 - Mathematics for the Liberal Arts: GT-MA1 **or** MAT 1340 - College Algebra: GT-MA1

Natural and Physical Sciences (8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses: GT-SC1 *

Arts and Humanities (9 Credits)

- Any three approved GT Pathways Arts & Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4 *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral Sciences courses (GT-SS1, GT-SS2, GT-SS3 *

History (3 Credits)

- Select one GT Pathways History course: GT-HI1 *

Additional Required Sociology Courses (18 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 102 Examines the basic concepts, theories, and principles of sociology, including topics of family, religion, education, politics, the economy, health, demography, the environment and social movements through a local and global lens. Analyzes and interprets socio-historical as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

- Choose three additional GT Pathways SOC courses (GT-SS3) **Credit(s): 9** *

Electives (6-7 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. Sociology; Criminology or Social Welfare emphasis)
- Colorado Mesa University (B.A. Sociology; Sociology concentration)
- Colorado State University-Fort Collins (B.A. Sociology; General Sociology concentration)
- Colorado State University-Pueblo (BA Sociology; B.S. Sociology)
- Fort Lewis College (B.A. Sociology; Human Services-General option)
- Metropolitan State University of Denver (B.A. Sociology)

- University of Colorado, Boulder (B.A. Sociology)
- University of Colorado, Colorado Springs (B.A. Sociology)
- University of Colorado, Denver (B.A. Sociology)
- University of Northern Colorado (B.A. Sociology; all emphasis)
- Western State Colorado University (B.A. Sociology)

Studio Art, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in Art History prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) or Bachelor of Fine Arts (BFA) degree in Art or Studio Art. Students who opt for the Bachelor of Arts in Studio Art can choose to work in several occupational fields, including museums, galleries, commercial art, education, media, photography and academia. Once a BA or BFA is completed, students may pursue a higher or graduate degree in Art, if interested.

Program Description

This program introduces the student to the field of Studio Art and includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Studio Art. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Studio Art will be ready to complete the last half of a BA or BFA in Studio Art at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of

critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing Course (GT-CO3) *

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GT- MA1) *, prefer MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Natural and Physical Sciences (7 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1, GT-SC2) *. At least one of these courses must include a laboratory component (GT-SC1) *

Arts and Humanities (6 Credits)

Note: Courses from the Arts and Expression category (GT-AH1) may not be used to meet this requirement

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Studio Art Courses (21 Credits)

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture.

This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1201 - Drawing I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 121 Investigates the various approaches and media that students need to develop drawing skills and visual perception.

ART 1002 - Visual Concepts 2-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 131 Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

ART 1003 - 3-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 132 Introduces the fundamentals of three-dimensional design, form, and space. The course applies the elements and principles of design to three-dimensional problems.

ART 1202 - Drawing II

Credit(s): 3
Art Studio Hour(s): 6
Prerequisite(s): ART 1201
Formerly ART 221 Explores expressive drawing techniques with an emphasis on formal composition, black and white, and color media and content or thematic development.

or

ART 1203 - Figure Drawing I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 128 Introduces the basic techniques of drawing the human figure.

- Select one additional 3-credit Studio Art course **Credit(s): 3**

Electives (8 Credits)

Determined by transferring institution;

Note: Students planning to transfer to Colorado State University-Fort Collins will be required to complete two semesters of one foreign language for their electives, or be able to pass the CSU-FC foreign language placement exam for completion of the BA in Studio Art.

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.A. Liberal Arts, Studio Art emphasis)
- Colorado Mesa University (B.F.A. Art, Studio Art concentration)
- Colorado State University-Ft. Collins (B.A. Art, Studio concentration)
- Colorado State University-Pueblo (B.A. Art)
- Fort Lewis College (B.A. Art, Art option)
- Metropolitan State University of Denver (B.A. Art)
- University of Colorado, Boulder (B.A. Studio Arts)
- University of Colorado, Colorado Springs (B.A. Visual and Performing Arts, Visual Art option)
- University of Colorado, Denver (B.A. Fine Arts, Studio Art emphasis)
- University of Northern Colorado (B.A. Art and Design, Art emphasis)
- Western State Colorado University (B.A. Art, Studio Art emphasis)

Associate of Applied Science

Click here for the Associate of Applied Science Degree Requirements

Accounting, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Accounting program offers training in theory and practice of modern accounting. It places emphasis on reasoning to make logical accounting policy decisions. Learn to use state-of-the-art equipment and software used in the industry. Gain valuable on-the-job training through the internship experience.

Career Options

The AAS in Accounting prepares you for a career in entry-level accounting or upper-level bookkeeping positions.

Total Credits: 61

Semester One, Fall (16 credits)

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ACC 1021 - Accounting Principles I

Credit(s): 4
Lecture Hour(s): 4
Formerly ACC 121 This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

Semester Two, Spring (16 credits)

ACC 1022 - Accounting Principles II

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): ACC 1021
Formerly ACC 122 This course continues the application of accounting principles to business organizations. Major topics include corporate equity and debt financing, investments, cash flow statements, financial analysis, budgeting, cost and managerial accounting.

ACC 1025 - Computerized Accounting

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 125 Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

Semester Three, Fall (13 credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth

trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ACC 2011 - Intermediate Accounting I

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): ACC 1012 or ACC 1022
Formerly ACC 211 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. Focus is 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.

BUS 1016 - Personal Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 116 Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

Semester Four, Spring (16 credits)

BUS 2026 - Business Statistics

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 226 Focuses on statistical study, sampling, organizing and visualizing data, descriptive statistics, probability, binomial distributions, normal distributions, confidence intervals, linear regression, and correlation. Intended for business majors.

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1031 - Income Tax

Credit(s): 3
Lecture Hour(s): 3
Formerly ACC 131 Introduces basic concepts of federal income taxation and tax administration with emphasis on taxation of individuals and sole proprietorships.

ACC 2012 - Intermediate Accounting II

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): ACC 2011
Formerly ACC 212 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 2087 - Cooperative Education

Credit(s): 3
Internship Hour(s): 9
Formerly ACC 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

MAN 2016 - Small Business Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 216 Examines the elements necessary for the successful formation of a new small business and to enhance the skills of those already involved in the operation of a small business. This course includes the development of a complete small business plan.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

Advanced Emergency Medical Technology AAS

See list of Department Chairs on the Personnel page.

Program Description

This program prepares students with the knowledge and skills needed for employment in a health care facility or in prehospital patient care. It will also prepare students to continue their education in more advanced careers in EMS, nursing and other health care fields. Upon successful completion of the CNA, EMT, and AEMT portions of the program, students will be eligible to take the certifying exams, and with successful Completion of the exam, may apply for state certification at that level of training.

All Health & Public Safety programs have essential functions you must be able to perform for you to be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

Career opportunities include ambulance service, skilled nursing facilities, critical care transport, and emergency department technician. If you graduate with an AAS degree, you have additional career opportunities in administrative and management in the pre-hospital field.

Total Program Credits -- 64

All courses must be completed with a grade of "C" or higher.

Total Credits: 65

First (16 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

NUA 1001 - Nurse Aide Health Care Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly NUA 101 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 1070 - Nurse Aid Clinical Experience

Credit(s): 1
Clinic Hour(s): 1.5

Formerly NUA 170 Applies knowledge and skill gained in NUA 101 to patient care. Pass/fail grading (F).

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Second (14 credits)

HPR 1039 - Medical Terminology

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 139 Discusses the structure of medical terms with emphasis on using and combining prefixes, roots and suffixes. This class includes terms related to major body systems, oncology, and psychiatry, as well as clinical laboratory and diagnostic procedures and imaging, and provides accepted pronunciation and spelling of terms used in the healthcare setting.

EMS 1015 - Emergency Medical Responder

Credit(s): 3
Lecture Hour(s): 3
Formerly EMS 115 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.

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Third (12 credits)

EMS 1021 - EMT Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly EMS 121 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 1022 - EMT Medical Emergencies

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 122 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 1023 - EMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 123 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 1024 - EMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 124 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 1070 - EMT Clinical

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly EMS 170 Provides the EMT student with the clinical experience required for initial certification and some renewal processes.

Fourth (10 credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on

laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

HPR 1050 - Basic EKG Interpretation

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): EMT cert or higher, or department chair approval
Formerly HPR 190 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.

Fifth (13 credits)

EMS 1127 - AEMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 1125
Formerly EMS 127 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 1132 - EMS Intravenous / Intraosseous Therapy

Credit(s): 2
Lecture Hour(s): .25
Vocational Lab Hour(s): 1.9
Clinic Hour(s): 1

Prerequisite(s): Current Colorado Certification as EMT or Department Chair Approval
Formerly EMS 132 Focuses on cognitive and skill practice for the Colorado scope of practice for the IV / IO endorsement as outlined in the Intravenous / Intraosseous Therapy and Medication Administration course curriculum.

EMS 1125 - AEMT Fundamentals

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): College readiness in English
Formerly EMS 131 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 1133 - AEMT Medical Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 133 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 1135 - AEMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 135 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 1071 - AEMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): EMS 1125
Formerly EMS 171 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.

Notes

[1] Successful completion of courses, student is eligible to sit for Nurse Aide Certification exam

[2] Successful completion of courses, student is eligible to sit for the EMT certification exam

[3] Successful completion of courses, student is elgibile to sit for the Advanced EMT certification exam

Applied Technology, AAS

See list of Department Chairs on the Personnel page.

Program Description

PCC offers the AAS degree in Applied Technology as part of a statewide consortium of community colleges and Area Vocational Technical Schools (AVTS) consortium and other Colorado public community colleges.

To attain the degree, you must complete the technical course work for a state-approved Career and Technical Education Certificate at one of the following AVTS's: Delta Montrose Area Vocational Technical Center, Emily Griffith Opportunity School, San Juan Basin Area Vocational Technical School and T.H. Pickens Technical Center.

You will complete the general education and other degree requirements at PCC. Course work from the AVTS will be credited to your transcript when you complete the requirements of both institutions.

Program Requirements

You must comply with the regulations and requirements related to admissions and attendance at each institution.

Minimum Requirements for This Degree Include:

a. Minimum of 60 credit hours of course work.
b. Cumulative GPA of 2.0 **or** higher.
c. General Education course of 15-18 semester hours
d. Additional requirements of at least 42 semester hours:
   * From an individual program with current state approval a one of four AVTS's
   * If the program certificate is less than 42 semester hours, then the program certificate hours plus elective credit hours from Pueblo Community College will be used for the total of at least 42 semester hours
e. Minimum of 15 semester credits earned at Pueblo Community College.

Total Credits: 60

Degree Requirements

AVTS Certificate (42-45 Credits)

General Education Courses (15-18 Credits)

The below general education courses must be selected from the general education courses listed in the AGS, AA or AS general education sections of this catalog.

- English/Speech **Credit(s): 3**
- Humanities **Credit(s): 3**
- Mathematics **Credit(s): 3**
- Natural Science **Credit(s): 3**
- Social Science **Credit(s): 3**

AAS Nursing

See list of Department Chairs on the Personnel page.

Program Description

The Associate Degree Nursing (ADN) program teaches you skills of direct patient care that you can apply in any healthcare setting. It offers theoretical and applied instruction in classrooms, simulated laboratories, and clinical settings. It integrates education in adult, gerontological, obstetric, pediatric, and psychiatric-mental health nursing. Your clinical learning will take place in diverse types of institutions.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The ADN program prepares you to provide safe, therapeutic, and competent nursing care in hospitals and other healthcare settings. You may also work as an entry level patient-care manager.

Total Credits: 70.5

General Education and Program Prerequisites

First (12 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 1010 - Biology Foundations: Prep for Anatomy & Physiology and Microbiology

Credit(s): 2
Lecture Hour(s): 2
Introduces foundational concepts for Human Anatomy and Physiology as well as Microbiology including macromolecules and cell structures, functions, and processes. This is a non-laboratory course.

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Second (12 credits)

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

1 Course must be completed within 10 years of entrance into the program

2 BIO 1111 will be accepted for credit

3 BIO 1010 and BIO 2101 are offered in a 5-week and 10-week format to complete in one semester

Program Course Schedule (First Year)

Apply to the Program – March 1st to May 1st For Fall semester, online at Pueblo Community College Nursing

Application Admission Requirements:

Students are required to complete additional admission requirements including aptitude testing and medical requirements as identified on the program website.

First Fall (12 credits)

NUR 1009 - Fundamentals of Nursing

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing or Psychiatric Technician programs.
Corequisite(s): Nursing: NUR 1012, HPR 1010, MAT 1120. Psych Tech: NUR 1012.
Formerly NUR 109 Examines the fundamental concepts necessary for safe, person-centered nursing care to a diverse patient population while integrating legal and ethical responsibilities. This course introduces caring, critical thinking/clinical judgment, the nursing process, quality improvement, and communication used when interacting with patients and interdisciplinary team through evidence-based nursing practice. The 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 1012 - Basic Concepts of Pharmacology

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing or Psychiatric Technician programs.
Corequisite(s): Nursing: NUR 1009, HPR 1010, MAT 1120; Psych Tech: NUR 1009.
Formerly NUR 112 Provides an overview of the basic principles of pharmacology including major drug classifications and prototypes of commonly used medications. This course introduces central concepts including safety and quality improvement practices in the administration of medications, person centered teaching, and variations encountered when administering medications to diverse population across the lifespan.

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

First Spring (13 credits)

NUR 1006 - Medical Surgical Nursing Concepts

Credit(s): 7
Lecture Hour(s): 3.40
Vocational Lab Hour(s): 0.90
Clinic Hour(s): 9.90

Prerequisite(s): Admission to Nursing Program and completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 1050 or permission of the program director.
Formerly NUR 106 Builds on fundamentals and introduces basic medical surgical nursing concepts, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered care to a developmentally and culturally-diverse adult patient population. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the nurse. The application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings.

NUR 1050 - Maternal-Child Nursing

Credit(s): 6
Lecture Hour(s): 3.30
Vocational Lab Hour(s): 2.10
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing program and completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 1006 or permission of the program director.
Formerly NUR 150 Provides the theory of maternal-child nursing, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, family-centered nursing care to childbearing families and children that is developmentally and culturally appropriate. This course incorporates evidence-based practice, standards of practice, quality improvement, and legal and ethical responsibilities. The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of maternal-child and pediatric clinical settings.

Program Course Schedule (Second Year)

Second Fall (12.5 credits)

NUR 2006 - Advanced Concepts of Medical-Surgical Nursing I

Credit(s): 6.50
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 9

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of the program director.
Formerly NUR 206 Builds on medical surgical nursing theory, mental health concepts, communication, collaboration,

caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse, high acuity medical surgical adult patients. The course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse. The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

NUR 2011 - Psychiatric-Mental Health Nursing

Credit(s): 4
Lecture Hour(s): 2.70
Clinic Hour(s): 3.90

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of program director.
Formerly NUR 211 Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders.

NUR 2012 - Pharmacology II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing program and successful completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 2011 or permission of the program director.
Formerly NUR 212 Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence- based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

Second Spring (9 credits)

NUR 2016 - Advanced Concepts of Medical Surgical Nursing II

Credit(s): 5
Lecture Hour(s): 2.30
Clinic Hour(s): 8.10

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2006 and NUR 2012 or permission of the program director.
Formerly NUR 216 Continues to build on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical surgical conditions. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse in high acuity settings. The application of knowledge and skills occurs in a variety of clinical settings.

NUR 2030 - Transition to Professional Nursing Practice

Credit(s): 4
Lecture Hour(s): 1.60
Clinic Hour(s): 7.20

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2016 or permission of the program director.
Formerly NUR 230 Provides an integrative experience applying all dimensions of the professional nurse when caring for diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed in this seminar and practice capstone course. Leadership and the management of multiple patients are emphasized. The application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

Behavioral Health AAS

See list of Department Chairs on the Personnel page.

Program Description

The Behavioral Health program (BHP) is a degree option for those who are interested in human behavior, especially in clinical or health-related settings. During the program, students will study behavioral health concepts related to addiction and substance abuse, counseling, group dynamics, and human development. The Behavior Health program will also cover current trends, best practices, and up-to-date research findings. If you wish to pursue a bachelor's degree after earning your AAS, you can take advantage of a smooth transfer to UCCS for a BA in Human Services or CSU Pueblo for a BAS in Health Science and Administration.

Graduates from the behavioral health program can look forward to a rapidly growing job market that has several options.

Career Information

A behavioral health specialist is a professional who works with people who have disabilities or problems with behavior and learning impairment in a variety of settings ranging from residential to outpatient, including but not limited to department of corrections, youth residential facilities, hospitals and outpatient facilities.

Career Opportunities include:

- Behavioral health technician
- Case manager
- Peer support worker
- Community health worker
- Family support worker
- Respite care worker
- Paraprofessional counselor
- Social service liaison

Total Credits: 65

Certified Addiction Technician (CAT) courses are offered fall only. Certified Addiction Specialist (CAS) courses offered spring and summer only. **NOTE: Students must complete all CAT courses before completing CAS courses.**

1st Spring (16 credits)

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

1st Summer (7 credits)

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Fall (16.5 credits)

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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.

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social

institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

CSL 2046 - Ethical Practice in Addiction Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 245 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 course covers the Colorado Mental Health Practice Act and introduce the regulatory system and the role of Departmental of Regulatory Agencies (DORA) and Division of Behavioral Health (DBH) in the development and credentialing of the addiction counselor. Emphasis on developing ethical decision-making skills, knowledge of confidentiality and the prohibited activities in the Mental Health Practice Act become familiar with the National Association for Alcoholism and Drug Abuse Counselors (NAADAC) Code of Ethics and acquire the tools for ethical and legal practice.

CSL 2051 - Pharmacology I for Addiction Counselors

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 251 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 2068 - Addictions Counseling Skills

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 268 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 2061 - Case Conceptualization and Documentation

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 260 Provides 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, American Society of Addiction Medicine (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 2065 - Culturally Informed Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 265 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 2050 - Motivational Interviewing I

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 250 Provides the opportunity for students to learn both the model of Motivational Interviewing as well as the underlying Stages of Development model. Discussion of the populations of clients where these models have proven most effective will be discussed. Student opportunity for skills practice during class that includes skill sets specific to each stage of client readiness will be used. Presentation of assessment instruments to evaluate client readiness for change.

CSL 2054 - Trauma Informed Care

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 254 Covers the concept of trauma?informed care, an approach being adopted within human services based upon an increased awareness of the ways trauma impacts functioning. Course will define what trauma informed care is and ways a traditional treatment setting can be modified to increase the sense of safety experienced by clients. Participants will learn how to incorporate trauma?informed practices into treatment with diverse populations, such as military veterans, women, and people with co?occurring disorders.

CSL 2069 - Principles of Addiction

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 269 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.

2nd Spring (18.5 credits)

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PTE 1017 - Theoretical Concepts of Psychiatric Care II

Credit(s): 2
Lecture Hour(s): 2
Formerly PTE 117 Explores psychiatric problems common to four (4) special populations: children/adolescents,

developmentally disabled individuals, aging persons, and forensic clients. The student learns to recognize and intervene with problems common to these four groups.

PTE 1020 - Application of Behavioral Health Care & Wellness

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Formerly PTE 120 Explores basic etiology, symptoms, and interventions for common behavioral and mental health disorders. Provides the opportunity for students to experience the mileu of a behavioral health care setting while providing basic care to clients experiencing common behavioral and mental health issues.

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

CSL 2055 - Infectious Diseases for Addiction Counselors

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 255 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 2052 - Advanced Pharmacology

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2051
Formerly CSL 252 Focuses on the pharmacology of alcohol and drugs such as stimulants, nicotine, cannabis, hallucinogens, designer drugs, over the counter medications, and medications for psychiatric illnesses. When combined with CSL 2051, this course meets the pharmacology training requirement for the Counselor II level of the Colorado Alcohol and Drug Abuse Program.

CSL 2053 - Cognitive Behavior Therapy

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 253 Opportunity for students to learn the model of Cognitive Behavior Therapy as it applies to addiction. Discussion of the populations of clients where this model has proven most effective. Opportunity for skills practice during class that includes clincial feeback. Minimum of 14 contact hours.

CSL 2058 - Group Counseling Skills

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 258 Provides students with the skills that allow one therapist to facilitate a group process that help a number of clients simultaneously, and provides positive peer support and pressure for recovery. This class will help the student understand the use of group therapy and be able to demonstrate the skills necessary to facilitate a therapy group. The class will focus on group process and discuss diversity within groups, as well as challenges for group leaders.

CSL 2059 - Advanced Professional and Ethical Practice

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2046
Formerly CSL 259 Addresses organizational ethics and practices, individual provider ethics and practices, and guidelines for setting up a private practice. Topics will include Office of Behavioral Health (OBH) licensing rules; OBH behavioral health rules and regulations; practice standards and guidelines; Department of Regulatory Agencies (DORA) and the Mental Health Practice Act; the purpose of and the need for written policies and procedures; professional competencies, boundaries and ethical relationships; reporting violations; employee drug testing; liability insurance; clinical versus administrative supervision; the ethical delivery of culturally-responsive care and trauma-informed care; and the need for professional self-care plan. This course will build on Ethical Practice in Addiction Treatment course.

2nd Summer (7 credits)

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 106 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.

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category.
GT-MA1

CSL 2048 - Advanced Case Conceptualization

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2061
Formerly CSL 248 Covers the differences between screening and assessment and use of assessment instruments. In this course components of the clinical assessment include a biopsychosocial interview, assessing risk for self-harm, identifying cultural needs and supports, problem domains, determining stage of readiness for change and strengths of the client. Stages of treatment and systems of care will be covered along with facets of treatment planning.

CSL 2056 - Co-occurring Disorders

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 256 Presents the basics of working with clients with co-occurring mental health and substance abuse disorders. This class will address clinical assessment, treatment philosophy, strategies, and guidelines to provide integrated treatment with co?occurring disorders. It will include an introduction to the diagnostic criteria for the mental disorders most often seen with substance use disorders. The essential values, attitudes, and competencies of the counselor working with this population are discussed.

1 Indicates Guaranteed Transfer course (GT)

2 Indicates program core course

3 Requires departmental approval

4 CAT courses

5 CAS courses

Business Management, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Business Management AAS degree provides the basic skills needed for management positions. Students learn principles of management. They also gain practical skills as they engage with the business world.

Career Options

The Business Management program prepares students for careers in entry-level positions in Marketing, Management, Sales, and Entrepreneurship (opening your own business).

Total Credits: 60

Semester One, Fall (15 credits)

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan,

launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ACC 1011 - Introduction to Financial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on financial accounting concepts prescribed by Generally Accepted Accounting Principles (GAAP), including financial information for external partners, the accounting cycle process, basic terminology, transaction analysis, internal control systems, and financial statement preparation and analysis.

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

- Any COM course **Credit(s): 3**

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

Semester Two, Spring (15 credits)

ACC 1012 - Introduction to Managerial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on the fundamentals of managerial accounting and cost management as tools to aid internal users' decision-making processes. This course covers basic managerial accounting concepts, such as product costing and cost behavior and control. It also covers internal management decision making tools, including cost-volume-profit analysis, budgeting, cost analysis, and planning and control systems.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BUS 1016 - Personal Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 116 Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

ENP 2007 - Entrepreneurship Financial Topics

Credit(s): 3
Lecture Hour(s): 3

Formerly ENP 207 Will cover topics such as financial planning for entrepreneurs, understanding tax considerations, understanding financial documents, financial ratio analysis, cash flow management, cost of capital and budgeting, raising capital, valuation, risk assessment, and venture exits.

Summer Semester Option

Enroll in any courses found on this page that would reduce the course load for other semesters.

Semester Three, Fall (15 credits)

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

ENP 2006 - Entrepreneurship Legal Issues

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 206 Explores legal issues related to business entities including sole proprietorship, general partnerships, limited partnerships, and corporations. This course reviews articles of incorporation and the filing process, employment law, property, landlord tenant rights and duties, and business insurance.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

MAN 2024 - Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 224 Focuses on the leadership skills for contemporary organizations. Covers development and

communication a shared vision to motivate and empower employees to manage conflict, to negotiate, and to develop teams.

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

Semester Four, Spring (15 credits)

ACC 1025 - Computerized Accounting

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 125 Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

BUS 2026 - Business Statistics

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 226 Focuses on statistical study, sampling, organizing and visualizing data, descriptive statistics, probability, binomial distributions, normal distributions, confidence intervals, linear regression, and correlation. Intended for business majors.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

MAR 2016 - Principles of Marketing

Credit(s): 3
Lecture Hour(s): 3
Formerly MAR 216 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.

ENP 2005 - Marketing for the Entrepreneur

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 205 Covers marketing strategies to launch and sustain an entrepreneurial venture. This course will include topics on marketing entrepreneurial ventures utilizing innovative and financially responsible marketing strategies. This course will help students to develop an understanding of entrepreneurial marketing goals and objectives. The course covers marketing principles and electronic marketing.

PSV 2030 - Introduction to Civic Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly PSV 230 Enables the student to develop a critical understanding of public leadership through the study of pertinent models, theories and research.

Business Ownership AAS

See list of Department Chairs on the Personnel page.

Program Description

The Business Management program (AAS Degree and Certificates) prepares students for entry level positions in Marketing, Management, Sales, and Entrepreneurship. These offerings also provide opportunities for individuals working within the industry to up-skill and advance their careers. The (AA) in Business Management prepares students to transfer to bachelor's degree programs in Business Management. Per the statewide articulation agreement, students can complete fundamental courses at PCC and transfer to complete a Bachelor's Degree with a specific emphasis.

Total Credits: 61

General Education Requirements (15 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

- Any Communications Course(s) **Credit(s): 3**

Core Curriculum Requirements (31 credits)

ACC 1021 - Accounting Principles I

Credit(s): 4
Lecture Hour(s): 4
Formerly ACC 121 This course introduces accounting principles for understanding the theory and logic that underlie

procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

ENP 1006 - Entrepreneurship Opportunity Analysis/Feasibility Study

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 106 Determines if a business venture is feasible based on personal, professional, and financial goals. This course will help to identify and analyze the present climate for business ideas through an industry analysis, target market analysis, competitive analysis, and financial analysis.

ENP 2005 - Marketing for the Entrepreneur

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 205 Covers marketing strategies to launch and sustain an entrepreneurial venture. This course will include topics on marketing entrepreneurial ventures utilizing innovative and financially responsible marketing strategies. This course will help students to develop an understanding of entrepreneurial marketing goals and objectives. The course covers marketing principles and electronic marketing.

ENP 2006 - Entrepreneurship Legal Issues

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 206 Explores legal issues related to business entities including sole proprietorship, general partnerships,

limited partnerships, and corporations. This course reviews articles of incorporation and the filing process, employment law, property, landlord tenant rights and duties, and business insurance.

ENP 2007 - Entrepreneurship Financial Topics

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 207 Will cover topics such as financial planning for entrepreneurs, understanding tax considerations, understanding financial documents, financial ratio analysis, cash flow management, cost of capital and budgeting, raising capital, valuation, risk assessment, and venture exits.

ENP 2009 - Entrepreneurship Business Plan

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 209 Guides students through the evaluation of a business concept. This course will include writing a comprehensive business plan. This course explores both traditional and lean business planning as a means to establish strategic vision and direction for a business. This course assesses the strengths and weaknesses of a business concept. This course will include identifying external and environmental factors related to business ownership and evaluating various resources available for funding small businesses.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

CTE Focused Elective Options (15 credits)

Students will choose courses within a specific discipline to gain content knowledge of a specific industry, e.g., Business, Culinary Arts, Automotive, Welding, Cosmetogloy, etc. **Credit(s): 15**

Computer Support Technician

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming, and database technologies along with classes that teach the technical aspects of the internet and data communications. Note: Students interested in transferring ot a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section of this catalog.

Total Credits: 60

Communications (3 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Mathematics (4 Credits)

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

OR

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an

introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

General Education Electives (9 Credits)

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CIS Core (16 Credits)

CIS 2020 - Fundamentals of Unix

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50

Formerly CIS 220 Explores the structure and fundamentals of the Unix operating system including the file system and file processing, various utility programs, shell, multi-user operation, text processing, and communications.

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

CIS 2087 - Cooperative Education

Credit(s): 1-12
Internship Hour(s): 3-36
Formerly CIS 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.
Credit(s) needed: 3

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

IT Systems Administration Core (28 Credits)

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CNG 1004 - Intro to TCP/IP

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 104 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 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1042 - Introduction to Cloud Computing Concepts

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 142 Introduces fundamental content on cloud computing including system analysis, requirements, configuration, deployment, and testing. This course includes information on management, business continuity, security, maintenance, updating, and troubleshooting as related to cloud computing.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024

Formerly CNG 224 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.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

CNG 2040 - Virtual Environment Admin

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 240 Build and administer a hypervisor environment. Includes building of virtual machine (VM) infrastructure and skills such as patching, backing up and securing of both hypervisor and virtual machines.

CNG 2042 - Cloud Computing

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 242 Installs, configures and manages a cloud environment. Builds on knowledge of hypervisor and virtual machine environments.

Cosmetology, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Cosmetology AAS program prepares students for job entry skills, customer communication, and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

The Cosmetology program has a selective admissions process. The program application and requirements are available in the Health & Public Safety Division office or at Pueblo Community College Cosmetology from Nov to June 1 (check with department after June 1). All Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. Not meeting the criteria specific to the Cosmetology program may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Cosmetology AAS degree

(Note: general education courses may be taken before or after Cosmetology core courses. All cosmetology core courses require program admission)

Apply to Cosmetology program by June 1

(If after June 1 contact the department chair for application)

Program Courses

Once you have applied and been accepted to the cosmetology program, you will be registered by the department into the courses listed below per semester.

All cosmetology core courses require program admission.

Total Credits: 68

General Education (15 credits)

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

ENP 2005 - Marketing for the Entrepreneur

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 205 Covers marketing strategies to launch and sustain an entrepreneurial venture. This course will include topics on marketing entrepreneurial ventures utilizing innovative and financially responsible marketing strategies. This course will help students to develop an understanding of entrepreneurial marketing goals and objectives. The course covers marketing principles and electronic marketing.

ENP 2006 - Entrepreneurship Legal Issues

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 206 Explores legal issues related to business entities including sole proprietorship, general partnerships, limited partnerships, and corporations. This course reviews articles of incorporation and the filing process, employment law, property, landlord tenant rights and duties, and business insurance.

ENP 2007 - Entrepreneurship Financial Topics

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 207 Will cover topics such as financial planning for entrepreneurs, understanding tax considerations, understanding financial documents, financial ratio analysis, cash flow management, cost of capital and budgeting, raising capital, valuation, risk assessment, and venture exits.

First Fall (18 credits)

COS 1003 - Shampoo/Rinses/Conditioners I

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 103 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 1010 - Introduction to Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 110 Introduces theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. This course covers basic application techniques and procedures for the application of haircolor.

COS 1020 - Introduction to Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 120 Introduces haircutting theory relevant to patron protection, angles, elevations, and the analysis of hair textures as related to hair cutting procedures. This course covers proper use and care of hair cutting implements, basic hair cutting techniques using various cutting implements, and disinfection and sanitation procedures as they relate to haircutting.

COS 1030 - Introduction to Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 130 Combines theory with the practical application of hairstyling. This course covers roller placement, hair molding and shaping, pin curls, finger waves, comb-out techniques, air forming, thermal straightening, or curling for short to long hair.

COS 1040 - Introduction to Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 140 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 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

NAT 1008 - Introduction to Manicures, Pedicures, and Artificial Nails

Credit(s): 3
Clinic Hour(s): 6

Formerly NAT 108 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.

EST 1010 - Introduction to Skin Care

Credit(s): 3
Clinic Hour(s): 6

Formerly EST 110 This course covers the study of skin in both theory and practical applications for skin care professionals. Topics included in the course are: skin structure and function, massage manipulations while providing facials and the benefits derived from a proper facial, and good skin care routines. Training is conducted in a classroom or lab setting using manikins or models.

EST 1011 - Intermediate Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1010.
Formerly EST 111 This course covers skin care and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students will help patrons to select the proper skin care treatment(s). Practical and theory application can be done in specialized classes or supervised salon setting using models or customer service.

First Spring (16 credits)

COS 1011 - Intermediate: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 111 Expands on haircoloring theory and practical application of color products, formulations of color, level and shades of color. Students will learn application techniques in a specialized class or in a supervised salon setting.

COS 1021 - Intermediate I: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020
Formerly COS 121 Expands on basic haircutting theory incorporating facial shapes, head and body forms to determine the appropriate techniques required to complete a client haircut. Students will apply hair cutting techniques in specialized classes or in the supervised salon.

COS 1031 - Intermediate I: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 131 This course covers the accepted methods of styling hair, air forming, roller sets, finger waves, pin curls, braiding, and hair pressing.

COS 1041 - Intermediate I: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 141 Emphasizes theory and practical application of chemical texture, including permanent waves and chemical relaxers, in a supervised salon setting. Students will practice different wrapping techniques required by trend styles in a classroom or salon setting.

COS 2030 - Intermediate II: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 230 This course covers accepted methods of styling hair, including: air forming, roller sets, iron sets, finger waves, braiding and hair pressing. Students will practice hairstyling techniques for client purposes in specialized classes or in a supervised salon setting.

COS 2040 - Intermediate II: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 240 This course covers theory of chemical texture and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Students will practice different wrapping techniques required by trend styles or per client request.

EST 2011 - Make-up for Skin Care Professionals

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): EST 1010.
Formerly EST 211 This course covers cosmetics and their functions for the skin care professional, including the importance of color theory, facial types and skin tones as they relate to facial makeup. Topics in this course include: Instruction from the basic makeup application, corrective makeup procedures, and disinfection and sanitation pertaining to all aspects of makeup.

NAT 1059 - Intermediate Manicuring/Pedicures/Artificial Nails II

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 159 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.

EST 2012 - Hair Removal

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): EST 1010.
Formerly EST 212 This course covers 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.

Second Fall (19 credits)

COS 2003 - Shampoo/Rinses/Conditioners II

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1003.
Formerly COS 203 This course covers theory and practical training in shampoos, rinses, and conditioners and examines

advanced techniques to prepare the student for employment. Instruction includes preparation for the Colorado State Board Licensing Examination for shampoos, rinses, and conditioners.

COS 2010 - Intermediate II: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 210 This course covers theory and practical application of color products, formulations of color, level and shades of color. Students will practice haircoloring techniques in a specialized class or in a supervised salon setting.

COS 2020 - Intermediate II: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020.
Formerly COS 220 This course covers haircutting theory related to facial shapes, head and body forms to determine the techniques necessary for client's specified haircut and practical applications of haircutting techniques for various client requests.

COS 2011 - Advanced Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1011.
Formerly COS 211 This course covers advanced theory and practical techniques in haircoloring. Course covers the recognition of color problems and color correction procedures in preparation for the Colorado State Board Licensing Examination. Topics in this course include: advanced techniques, color formulation, and product knowledge.

COS 2021 - Advanced Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1021.
Formerly COS 221 This course covers advanced haircutting techniques utilizing multiple cutting tools and emphasizes current fashion trends and preparation for the Colorado State Licensure examination.

COS 2031 - Advanced Hair Styling

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1031.
Formerly COS 231 This course covers hairstyling theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon work and specialized classes. Students will prepare for the Colorado State Board Licensing Examination.

COS 2041 - Advanced Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1041.
Formerly COS 241 This course covers advanced techniques for chemical texture and current industry standards of practice to prepare the student for employment and the State Board Licensing Examination. Instruction is provided in specialized classes or supervised salon setting.

NAT 1058 - Intermediate Manicuring, Pedicures, and Artificial Nails

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 158 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 2008 - Advanced Manicuring/Pedicures/Artificial Nails

Credit(s): 4
Clinic Hour(s): 8

Formerly NAT 208 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.

EST 2010 - Advanced Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1011.
Formerly EST 210 This course covers advanced techniques for massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment and preparation for State Board Licensing Examination. Instruction is provided in specialized classes or in a supervised salon setting.

Cybersecurity AAS

See list of Department Chairs on the Personnel page.

Program Description

The Computer Information Systems program provides skills to ensure networks are secure. You will learn about essential principles of networking, security maintenance, and troubleshooting. If you plan to transfer a bachelor's degree, refer to the Transfer Degree section or speak with an advisor.

Career Options

The CIS Cybersecurity degree provides training to become a network security technician.

Total Credits: 61

Semester One, Fall (16 credits)

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

Semester Two, Spring (16 credits)

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

CNG 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.
*Recommended

Semester Three, Summer (3 credits)

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 133 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.

Semester Three, Fall (13 credits)

CNG 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

- Elective: Choose 2 from the elective list below **Credit(s): 6**

Semester Four, Spring (13 credits)

CNG 1004 - Intro to TCP/IP

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 104 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 2056 - Vulnerability Assessment Level 1

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032 or CNG 2001
Formerly CNG 256 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 2058 - Digital Forensics

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): CNG 1032
Formerly CNG 258 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.

CIS 2087 - Cooperative Education

Credit(s): 1-12
Internship Hour(s): 3-36
Formerly CIS 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Electives

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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.

CNG 1042 - Introduction to Cloud Computing Concepts

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 142 Introduces fundamental content on cloud computing including system analysis, requirements, configuration, deployment, and testing. This course includes information on management, business continuity, security, maintenance, updating, and troubleshooting as related to cloud computing.

CSC 2067 - Object-Oriented Analysis and Design

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 267 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.

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CNG 2057 - Network Defense and Counter Measure

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 257 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.

- Any course with HIT prefix **Credit(s): 3**

Dental Hygiene, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The Dental Hygiene program prepares you for a career in a variety of professional settings. The most familiar setting is the private dental office, where hygienists perform critical services to detect and prevent diseases of the mouth. Beyond the private dental office, you can find employment in nursing homes and long-term care facilities, hospitals, corporate health facilities, school systems and public health clinics. You may also work as an educator or researcher.

Program Description

The AAS Degree prepares you to provide dental hygiene services to patients and educate them in aspects of preventive dentistry. In our on-campus clinic, you will provide preventive and therapeutic services for patients under the supervision of Dental Hygiene faculty.

In the traditional role of dental hygienist, training includes prophylaxis, patient data gathering for dental hygiene diagnosis and treatment planning, fluoride treatment, sealant application, radiographic examination and nutritional counseling. In the expanded role of the dental hygienist, training includes treatment of periodontally-involved patients and treatment of handicapped, institutionalized and other medically compromised patients. You also learn to perform local anesthesia and administer nitrous oxide.

Because of the high level of personal and professional responsibility required of a dental hygienist, you must have integrity, maturity, individual motivation, good interpersonal skills, excellent manual dexterity and a solid science and general studies academic background to be successful in this program. We are firmly committed to fostering your intellectual growth and to developing well-qualified dental hygienists with high professional standards and ethics.

The Mini-Certificate in Local Anesthesia and Nitrous Oxide/Oxygen Sedation provides you with knowledge of the theory and practice of local anesthesia and nitrous oxide/oxygen sedation. This program teaches you to administer local anesthetics and nitrous oxide proficiently and safely. The administration of local anesthesia and nitrous oxide/oxygen sedation may be performed by licensed dental hygienists under the Colorado State Dental Practice Act. You must be currently enrolled in the Dental Hygiene program to enter this program.

Program Requirements

Entrance Requirements:

You must complete a current Dental Hygiene program application and meet all minimum requirements and application timelines. The application is available through the Dental Hygiene program, at the PCC Dental Hygiene website or in Admissions & Records. You should seek advisement from program faculty for assistance with applications, minimum

requirements and required general education courses for admissions. In addition, all students entering the program will need a current CPR card good for 2 years.

If you are an AAS Dental Hygiene student, you must complete all General Education/Related Requirements.

Note: All students are accepted provisionally pending completion of a criminal background check. Disclaimer: The Colorado Board of Dental Examiners requires a dental hygienist applying for licensure 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.

Optional course: DEH 2066 is offered in the last semester of the program and highly encouraged to students taking their licensing exam.

Total Credits: 92.5

Degree Requirements

General Education Requirements (28 Credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2

Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1009 - General, Organic, and Biochemistry

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 109 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.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and

interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

* Within five years of application

Core Curriculum Requirements (64.5 Credits)

First Year-Fall Semester (14 Credits)

DEH 1001 - Preclinical Dental Hygiene Lecture

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 101 Introduces basic dental hygiene theory, instrumentation, and patient care assessment. Focuses on the application of diagnostic, preventive, and therapeutic procedures in a wide variety of areas related to clinical practice, health promotion, and disease prevention.

DEH 1002 - Preclinical Dental Hygiene Care

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 102 Introduces the entry-level dental hygiene student to fundamental procedures and techniques to include instrumentation, infection control, and patient assessment. Provides a variety of clinical learning experiences to develop basic skills and knowledge for entry into the dental hygiene profession.

DEH 1003 - Dental Anatomy and Histology

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 103 Introduces the general anatomy of the face including terminology, anatomic landmarks, and tooth identification. Specific focus is placed on the anatomical and histologic features of the teeth and other structures of the oral cavity. Introduction to the embryology of the face, oral, and nasal cavities is presented, as well as development of the teeth and histological features of the various components of the teeth and surrounding structures.

DEH 1004 - Dental Radiology

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 104 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 1005 - Introduction to Dental Hygiene

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 105 Provides the first year dental hygiene student with the basic knowledge, theory, and skill necessary to advance to subsequent clinical dental hygiene courses. This course includes an introduction to the principles of basic instrument recognition, expected professional and ethical behaviors, HIPAA and FERPA compliance, OSHA standards for infection control, dental software systems, oral hygiene instruction, dental hygiene care planning for the patient, and proper consent form documentation.

DEH 2002 - Applied Nutrition in Dentistry

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 202 Builds a foundational knowledge of general nutrition in relation to nutrient functions, sources and their impact on the body with a focus on the oral cavity. This course covers integration of physiological and behavioral concepts through the implementation of dietary assessment and nutritional intervention during the process of dental hygiene care.

First Year-Spring Semester (13.5 Credits)

DEH 1011 - Dental and Medical Emergencies

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 111 Introduces the management of emergency situations in the dental office setting. Explains the management of emergency situations with an emphasis on prevention and identification of potential medical emergencies that can occur in the dental office or during dental treatment. Provides practical skills applicable to dental hygienists and the scope of responsibility for medical emergency management as dictated by state dental practice law. Includes content and use of emergency kits, oxygen support systems, use of ASA classification to evaluate risk, and emergency management simulations.

DEH 1022 - Periodontics I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 122 Introduces the principles of periodontics with a focus on the recognition of tissues in health and disease, macro and microanatomy of the periodontium, and histopathology of periodontal diseases and other related gingival conditions. This course explains the theory and discussion of periodontal assessment, etiology, epidemiology, inflammatory process/immune response, and the American Academy of Pediatrics (AAP) Periodontal Disease Classification System.

DEH 1023 - Head & Neck Anatomy

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Acceptance into the Dental Hygiene Program

Formerly DEH 123 Analyzes the anatomy and function of the head and neck with emphasis on the muscles of mastication and facial expression, bones of the head and neck, the temporomandibular joint, lymphatic, glandular system, vascular supply, nervous system, and the oral cavity.

DEH 1026 - Dental Materials

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 126 Examines the science of dental materials providing a sound knowledge of the use and function of these materials in clinical practice. Covers didactic and laboratory experiences of the physical properties, chemistry, and clinical applications of the materials used in the practice of dentistry.

DEH 1053 - Clinical Theory of Dental Hygiene I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 153 Builds on the broad theoretical basis provided in DEH 1001and DEH 1002. Focuses on enhancing patient assessment skills, instrumentation and additional information on preventative and prophylactic clinical procedures.

DEH 1070 - Clinical Practice of Dental Hygiene I

Credit(s): 4.50
Clinic Hour(s): 9

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 170 Creates direct clinical experience for the student dental hygienist by providing an opportunity to treat a variety of patients utilizing assessment, instrumentation, and additional preventative clinical procedures.

Second Year-Summer Semester (6 Credits)

DEH 1033 - Local Anesthesia

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 133 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 1034 - Advanced Clinical Skills

Credit(s): 1
Lecture Hour(s): 0.70
Clinic Hour(s): 0.60

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 134 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 1038 - Nitrous Oxide/Oxygen Sedation

Credit(s): 1
Lecture Hour(s): 0.80
Clinic Hour(s): 0.40

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 138 Develops a working knowledge of the equipment and methods used to administer nitrous oxide/oxygen sedation in the dental office.

DEH 1071 - Clinical Practice of Dental Hygiene I-A

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 171 Provides patient care opportunities for the performance of dental hygiene treatment. Treatment will be provided to both periodontally-compromised and healthy patients utilizing advanced instrumentation and power scaling.

Second Year Fall Semester (17 Credits)

DEH 1032 - Applied Pharmacology

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 132 Examines general pharmacology and discusses relevant drugs that may influence the management of dental hygiene patients. Completion of the course enables students to perform safe and effective evaluations of patients for dental hygiene treatment.

DEH 2004 - Community Dental Health I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 204 Develops knowledge in the concepts, methods, and social determinants of health related to improving oral health in the community. Emphasis is placed on evidence-based strategies for the development of oral health promotion, oral disease prevention and oral health management programs.

DEH 2013 - General and Oral Pathology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program

Formerly DEH 213 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 2042 - Periodontics II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 242 Continues to explore theoretical/clinical preparations with emphasis on dental hygiene process of care, treatment planning, non-surgical treatment, evaluation of treatment, and maintenance needs of the periodontal patient. Develops research and decision making skills with use of library and Internet resources relating to risk factors, etiologic agents, and treatment modalities. Includes comprehensive periodontal assessment, supplemental diagnostics, periodontal pharmacology, and evidence based treatment planning.

DEH 2068 - Clinical Theory of Dental Hygiene II

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 268 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 2070 - Clinical Practice of Dental Hygiene II

Credit(s): 6
Clinic Hour(s): 12

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 270 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.

Second Year-Spring Semester (14 Credits)

DEH 2021 - Ethics and Practice Management

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 221 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 2025 - Community Dental Health II: Field Experience

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 225 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 2059 - Advanced Dental Hygiene Theory

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 259 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 2071 - Clinical Practice of Dental Hygiene III

Credit(s): 6
Clinic Hour(s): 12

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 271 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 2082 - Periodontics III

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 282 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 2085 - Clinical Theory of Dental Hygiene III

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 285 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.

Early Childhood Education, AAS

See list of Department Chairs on the Personnel page.

Program Description

This program prepares you to become a productive, caring, and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive, and physical development. Clsses also focus on culutral diversity among children. You will become familiar with theories concerning child development and ECE, and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Total Credits: 60

Degree Requirements

General Education Requirements (15 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

OR

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

OR

- Higher level MAT **Credit(s): 3**
- Any GT:AH course **Credit(s): 3**
- Any GT:SS course **Credit(s): 3**

Core Curriculum Requirements (39 Credits)

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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 1045 - Introduction to Early Childhood Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 1031
Formerly ECE 102 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 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011

Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 2051 - Nutrition, Health and Safety

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 205 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 2621 - ECE Curriculum Development: Methods and Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 220 Explores planning and implementing effective early childhood curriculum for children, from birth through age eight years, including developmentally and culturally appropriate classroom environments, and written curriculum plans. The course also covers curricular content areas relevant to early childhood.

ECE 2631 - Language and Cognition for the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 225 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 2641 - Creativity and the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 226 Explores creative learning theories and evidence-based practices related to creative self-expression with young children. The course emphasizes the teacher's role in encouraging and supporting creativity and problem-

solving skills. The course also addresses the use of developmentally appropriate curriculum planning to promote creative self-expression in all developmental domains for children ages birth through 8 years.

ECE 2381 - Ece Child Growth and Development

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 238 Provides an overview of growth, development, and learning of young children from birth through 12 years. The course includes the major theories of development as integrated in developmental domains and offers opportunities to practice effective research and assessment methods to gather child development information. This course also includes practical applications of child development knowledge to responsive teaching practices.

ECE 2401 - Administration of Early Childhood Care and Education Programs

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 240 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 2411 - Administration: Human Relations for Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 241 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 2601 - The Exceptional Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 260 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 2088 - Practicum: Early Childhood Education

Credit(s): 3
Lecture Hour(s): 1
Practicum Hour(s): 4
Prerequisite(s): ECE 1011 and ECE 1045
Formerly ECE 288 Provides students with advanced field experience opportunities in early childhood education programs.

Electives (6 Credits)

Select two courses:

ECE 2661 - Science/Math and the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 125 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 2101 - Working with Parents, Families, and Community Systems

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 256 Examines personal and professional dispositions and strategies impacting partnerships with diverse families, including perspectives that recognize diversity and promote equity in early care and education settings. The course covers theoretical perspectives of families and communities, communication strategies, and activities used to promote family partnerships, and explores community resources to support children and their families.

LIT 2055 - Children's Literature

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Placement at the Composition I level
Formerly LIT 255 Examines the criteria for selecting appropriate literature for children. Explores literature through a variety of genres, age levels, values taught through literature, and literary and artistic qualities of various texts. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT:AH2

Electromechanical Technology, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The AAS degree in Industrial Electronics Technology prepares you for a career as an electronics technician, an electromechanical technician, a semiconductor manufacturing technician or an electromechanical field service technician.

Program Description

This program develops essential skills for maintaining the complex electromechanical systems found in modern automated manufacturing facilities. After completing a core of courses in math, physics, fundamental analog and digital electronics, robotics and programmable logic controllers, you will branch off into one of two optional tracks. The

electromechanical option emphasizes a broader range of skills, including print reading, motors and controls, and mechanical components. In addition to the two AAS degree options, several certificate options are also available.

Program Requirements

Entrance Requirements:

You should have good basic reading, language and math competencies. High school algebra and physics are recommended but not required. Refresher classes are available.

Total Credits: 64

Degree Requirements

General Education Requirements (15 Credits)

CIS 1010 - Intro to Computing Technology (Device)

Credit(s): 1
Vocational Lab Hour(s): 1
Formerly CIS 110 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.

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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.

or

- Any 1 credit hour COM class offered in the fall semester

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores

Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

or

- Any Social/Behavior Science-Arts/Humanities Course

Common Core Requirements (46 Credits)

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

ELT 2252 - Motors and Controls

Credit(s): 3
Lecture Hour(s): 1

Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 252 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 2254 - Industrial Wiring

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 254 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 2357 - Sensors and Transducers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 257 Enables the student to study, construct, test and evaluate methods of testing and controlling common industrial processes. Includes sensing systems, transducers, measurement techniques, systems interfacing, process control and data acquisition.

ELT 2358 - Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): (ELT 1206 or EIC 1201) AND ELT 2252
Formerly ELT 258 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 2359 - Advanced Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 2358
Formerly ELT 259 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 2080 - Internship

Credit(s): 1-12
Internship Hour(s): 3-36
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 280 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 2089 - Capstone: Automated Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 289 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.

MAC 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 2056 - Industrial Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 256 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation, and maintenance of plant equipment. It includes safety, fit, threads, bearings, fasteners, hardware, lubricants, and assembly.

MAC 2065 - Mechanical Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 265 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation and maintenance of plant equipment. It includes keys, keyways, belts, chains and drives, gears and drives, seals, shafts, and coupling alignment.

MTE 1102 - Safety Manufacturing Environment

Credit(s): 1
Lecture Hour(s): 1
Formerly MTE 105 Introduces Occupational Safety and Health Administration (OSHA) federal and state regulations, industrial practices, and accident investigation techniques; including topics such as hazard communication standards,

lockout/tagout procedures, eye safety, lifting techniques, electrical safety, stored energy safety, Personal Protective Equipment (PPE), and safety program development and monitoring.

MTE 2320 - Fluid Power Control

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): MTE 1102 or Corequisite below
Corequisite(s): MAT 1140 or higher
Formerly MTE 238 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.

WEL 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

or

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

Electives (3 Credits)

(Select one class)

CAD 1101 - Computer Aided Drafting/2D I

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 101 Focuses on basic computer aided drafting skills using the AutoCAD software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning and Help access.

CIS 2020 - Fundamentals of Unix

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 220 Explores the structure and fundamentals of the Unix operating system including the file system and file processing, various utility programs, shell, multi-user operation, text processing, and communications.

CNG 1021 - Computer Technician I: A+

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly CNG 121 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 1022 - Computer Technician II: A+

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): CNG 1021 Corequisite: CNG 1021
Formerly CNG 122 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 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

WEL 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

Emergency Medical Services, AAS

Career Opportunities

See list of Department Chairs on the Personnel page.

The EMS program prepares you for a career in the pre-hospital health care field as an emergency medical care provider at the EMT, EMT-Intermediate or Paramedic level. Career opportunities include providing patient care while working for an ambulance agency, fire service or hospital emergency room. Additional opportunities are in such areas as tactical EMS, critical care transport and ski patrol. If you graduate with an AAS degree you have additional opportunities in administration and management in the pre-hospital field.

Program Description

This program teaches you the knowledge and skills needed for scene management, emergency patient care and transport. This includes scene safety, patient assessment and treatment, medication administration, documentation and patient transport. Upon successful completion of the program, you may take the National Registry exam and, upon passing the exam, you may apply for Colorado State Certification at your level of training.

Program Requirements

Entrance Requirements:

To enroll in the EMT, EMT-Intermediate or Paramedic programs, you must be at least 18 years of age, have all current immunizations and be able to meet the requirements of the PCC EMS Common Functional Abilities Standard. For enrollment into the EMT-Intermediate or Paramedic programs, you must have a current Colorado EMT certification, an EMT IV endorsement, successfully complete all prescreening examinations and prerequisites, and obtain department approval for enrollment into these programs.

The EMS Department is offering an EMT-Intermediate to Paramedic Bridge course for those who are EMT-Intermediates. To qualify for this program you must be an EMT-I99, be eligible for state certification, and pass an EMT-I prescreening exam or be nationally registered as an EMT-I99. For more information on prerequisites and classes, please call the EMS Department.

Note: Clinical agencies used during the program require that you successfully complete a background check and a drug screen, immunization series and CPR training. Please check with a program advisor for any changes to admission requirements.

Total Credits: 69

Semester One

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Semester Two

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

or

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Semester Three

EMS 2025 - Fundamentals of Paramedic Practice

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): BIO 1006 or BIO 2102
Formerly EMS 225 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 2026 - Fundamentals of Paramedic Practice - Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50

Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 226 Teaches the skills necessary for the paramedic to apply professional behavior, medical ethics, legal issues, patient assessment, therapeutic communication, clinical decision making, and airway management. Serves as the companion course to Fundamentals of Paramedic Practice.

EMS 2029 - Paramedic Pharmacology

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 2025
Formerly EMS 229 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 2030 - Paramedic Pharmacology Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 230 Teaches the skills necessary for the paramedic to safely and effectively administer emergency medications. Serves as the companion course to Paramedic Pharmacology.

EMS 2033 - Paramedic Medical Emergencies

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): EMS 2025
Formerly EMS 233 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 2034 - Paramedic Medical Emergencies Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 234 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.

Semester Four

EMS 2027 - Paramedic Special Considerations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 2025
Formerly EMS 227 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 2028 - Paramedic Special Considerations Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 228 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 2031 - Paramedic Cardiology

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): EMS 2025
Formerly EMS 231 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 2032 - Paramedic Cardiology Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 232 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 2036 - Paramedic Trauma Emergencies Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025

Formerly EMS 236 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 2037 - Paramedic Internship Preparatory

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 2025
Formerly EMS 237 Reviews concepts and techniques used in the prehospital setting.

Semester Five

EMS 2080 - Paramedic Internship I

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): EMS 2025
Formerly EMS 280 Serves as the preceptor/internship program for paramedic students.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Semester Six

EMS 2081 - Paramedic Internship II

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): EMS 2025
Formerly EMS 281 Serves as the continuation of EMS 280, preceptor program for paramedic students.

Fire Science Technology AAS

See list of Department Chairs on the Personnel page.

Program Description

The Fire Science Technology is an Associate of Applied Science (AAS) degree designed to meet the needs of fire protection and safety personnel. The program will prepare you for a career in fire science or a related field. Courses are offered through traditional classroom instruction, online, independent study, and hands on training.

Career Information.

The Fire Science Technology program prepares students for entry level positions in the fire service industry. Students **are not** required to take EMT courses as a prerequisites to the Fire Science AAS degree.

Total Credits: 66

First (18 credits)

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

FST 1002 - Principles/Emergency Services

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 102 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 1003 - Fire Behavior & Combustion

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 103 Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FST 1009 - Occupational Safety & Health

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 109 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.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

- Any FST, FSW, EMS **Credit(s): 3**

Second (18 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

FST 1005 - Building Construction for Fire Protection

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 105 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 1006 - Fire Prevention

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 106 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 2009 - Fire Protection Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 209 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.

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

OR

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

OR

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

OR

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appropriate placement scores

Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Third (15 credits)

MAN 2024 - Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 224 Focuses on the leadership skills for contemporary organizations. Covers development and communication a shared vision to motivate and empower employees to manage conflict, to negotiate, and to develop teams.

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

OR

PSC 1025 - American State and Local Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 125 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 is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

FST 2002 - Strategy and Tactics

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 202 Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.

FST 2001 - Instructional Methodology

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 201 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.

- Any FST, FSW, or EMS **Credit(s): 3**

Fourth (15 credits)

FST 2006 - Fire Co Superv and Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 206 Addresses the requisite knowledge and skills required to perform at level 1 as identified in National Fire Protection Association (NFPA) 1021, Fire Officer Professional Qualifications. Areas of focus include: fire department organization, company officer traits, roles and responsibilities, communications practices, administrative functions, safety, health and wellness, training, fire prevention, human resources management, and incident management and operations. The course prepares the learner for the Colorado Fire Officer I State Exams and JPR evaluations.

FST 2004 - Principles of Code Enforcement

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 204 Provides the students with the fundamental knowledge of the role of code enforcement in a comprehensive fire prevention program.

FST 2057 - Fire Department Administration

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 257 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.

- Any FST, FSW, or EMS **Credit(s): 6**[1]

1 Technical Skills Electives -- Student may choose 12 credits any FST, FSW, or EMS courses for Technical Elective courses to complete the AAS degree.

2 Course is offered spring semester only

3 Course is offered fall semester only

General Automotive Technology, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Automotive Service Technology AAS degree teaches about auto maintenance. Students must pass a background check and a drug screening to be eligible for this program. Learn how to diagnose and repair auto problems. Learn about brake, electrical, engine, transmission, suspension, steering, and air conditioning systems. The program is nationally accredited. As PCC students, you can take exams to obtain ASE credentials from the National Institute for Automotive Service Excellence, This degree is transferrable to the bachelor's degree program at CSU Pueblo.

Total Credits: 77

General Education Requirements: 15

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

OR

- a CCCS GT-MA1 course **Credit(s): 3**
- Any combination of gen ed electives **Credit(s): 9**

Core Curriculum Requirements: 58

ASE 1002 - Introduction to the Automotive Shop

Credit(s): 2
Lecture Hour(s): 2
Formerly ASE 102 Prepares the incoming automotive student to work in the shop safely and gain familiarity with the shop and common equipment.

ASE 1010 - Brakes I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 110 Covers the basics of how various systems on the automobile operate, maintenance requirements, and financial concerns related to operating and maintaining an automobile.

ASE 1011 - Automotive Brake Service II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 111 Covers diagnostics, test procedures, and repair to automotive foundation braking system. This course also introduces the components, types of Antilock Braking Systems (ABS), and traction control systems of current vehicles. This course meets MLR/AST/MAST program accreditation requirements.

ASE 1020 - Basic Auto Electricity

Credit(s): 2
Lecture Hour(s): 1.5
Vocational Lab Hour(s): 0.75
Formerly ASE 120 Introduces vehicle electricity, basic electrical theory, circuit designs, and wiring methods. This course focuses on multimeter usage and wiring diagrams. This course meets MLR/AST/MAST requirements.

ASE 1023 - Starting and Charging System

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 123 Covers the operation and theory of a vehicle battery, testing, service, and repair of starting and charging systems including voltage testing, draw testing. This course meets MLR/AST/MAST program requirements.

ASE 1030 - General Engine Diagnosis

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 130 Covers how to perform basic engine diagnosis to determine condition of engine including engine support systems. This course meets MLR/AST/MAST requirements.

ASE 1032 - Ignition System Diagnosis and Repair

Credit(s): 2
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 0.75
Formerly ASE 132 Focuses on lecture and related laboratory experiences in the diagnosis, service, adjustments and repair of various automotive ignition systems.

ASE 1034 - Automotive Fuel and Emissions Systems I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 134 Focuses on the diagnosis and repair of automotive fuel emission control systems, filter systems, and spark plugs. This course also includes maintenance to Diesel Exhaust Fluid (DEF) systems.

ASE 1040 - Suspension and Steering I

Credit(s): 2
Lecture Hour(s): 1

Vocational Lab Hour(s): 1.5
Formerly ASE 140 Focuses on diagnosis and service of suspension and steering systems and components. This course meets MLR/AST/MAST requirements.

ASE 1041 - Suspension and Steering II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 141 Covers design, diagnosis, inspection, service of suspension, and steering systems used on light trucks and automobiles including power steering and Supplemental Restraint System (SRS) service. This course meets AST/MAST requirements.

ASE 1051 - Automotive Manual Transmission/Transaxles & Clutches I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 151 Focuses on the diagnosis and repair of automotive manual transmissions, transaxles, clutches, and related components. This course meets AST/MAST requirements.

ASE 1052 - Manual Transmission, Transaxles and Clutches II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 152 Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all-wheel drive units.

ASE 1061 - Automotive Engine Repair & Rebuild

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly ASE 161 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 2010 - Automotive Power and ABS Brake Systems

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 210 Covers the operation and theory of the modern automotive braking systems including the operation, diagnosis, service, and repair of the anti-lock braking systems and power assist units. This course also covers the machining operations of today's automobile brake systems. This course meets AST/MAST requirements.

ASE 2021 - Auto/Diesel Body Electrical

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50

Formerly ASE 221 Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories.

ASE 2033 - Auto Fuel Injection and Emissions Systems II

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 233 Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.

ASE 2036 - Advanced Drivability Diagnosis/Repair

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 236 Focuses on lecture and laboratory experiences in the inspection, testing and repair of typical computerized engine control systems on customer vehicles.

ASE 2040 - Suspension and Steering III

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 240 Covers operation of steering and power steering systems. It will also include different alignment types and procedures.

ASE 2050 - Automatic Transmission/Transaxle Service

Credit(s): 1
Lecture Hour(s): 1
Formerly ASE 250 Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle. This course meets MLR/AST/MAST requirements.

ASE 2051 - Automotive Transmission and Transaxle Repair

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly ASE 251 Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation including removal, installation, and replacement of transmission/transaxle and components. This course meets AST/MAST requirements.

ASE 2052 - Advanced Automatic Transmissions/Transaxles O/H

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 252 Covers the diagnosis, repair, and rebuild of automatic transmissions and transaxles including the hydraulic, electronic, and mechanical components. This course meets MAST requirements.

ASE 2053 - Advanced Manual Transmission/Transaxles

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 253 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 2064 - Introduction Automotive Heating and Air Conditioning

Credit(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 264 Covers basic operation of heating and air conditioning components. This course meets MLR/AST/MAST requirements.

ASE 2065 - Heating and Air Conditioning Systems

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 265 Emphasizes lecture and related laboratory experiences in the diagnosis and service of vehicle heating and air conditioning systems and their components.

ASE 2181 - Internship: Basic Heavy Duty and Power Train

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 281 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 ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

ASE 2182 - Internship: General (Summer)

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 282 Emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student takes all related sponsor requirements in (STS) Service Training Standards (General Motors) or ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Core electives, choose one option below **Credit(s): 4**

ASE 1062 - Automotive Engine Service & Repair

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 162 Covers engine sealing requirements and repair procedures including engine fasteners, bolt torque, repair of fasteners, cooling system, and basic engine maintenance. This course meets AST/MAST requirements.

ASE 2060 - Advanced Engine Diagnosis

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 260 Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors related to customer vehicles.

OR

ASE 2210 - Hybrid Vehicle/Electric Vehicle Safety and Operation

Credit(s): 4
Lecture Hour(s): 2.5
Vocational Lab Hour(s): 2.25
Provides an overview of HEV (Hybrid Electric Vehicles) and BEV (Battery Electric Vehicles) design, layout, systems, and operations emphasizing safety procedures.

Graphic Design AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

Occupations for which students will be prepared for include: Graphic Artist, Layout Specialist, Illustrator, Graphic Designer, Production specialist, and Marketing and Promotions professional.

Program Description

While earning a Graphic Design A A S degree students develop an excellent foundation in art, design, computer technology, and business skills. Using industry standard software, students create graphic elements, design print and electronic communication pieces, and produce or publish their work. Including advertising promotion, corporate identity, publication design and website design. An Internship experience allows the student to gain first-hand experience with employers.

Total Credits: 63

Degree Requirements

Semester 1 - Fall (15 Credits)

ART 1002 - Visual Concepts 2-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 131 Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1015 - Typography & Layout

Credit(s): 3
Vocational Lab Hour(s): 4.50
Corequisite(s): MGD 1001 or MGD 1002 or MGD 1012 or MGD 1013
Formerly MGD 105 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.

Semester 2 - Spring (15 Credits)

ART 1201 - Drawing I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 121 Investigates the various approaches and media that students need to develop drawing skills and visual perception.

ART 1401 - Digital Photography I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 139 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.

MAR 2020 - Principles of Advertising

Credit(s): 3
Lecture Hour(s): 3
Formerly MAR 220 Examines the principles and practices of advertising and its relationship to business in the promotion of a business or organization. Areas of major emphasis include advertising principles, strategies, media, copy, and ethical considerations.

MGD 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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.

Mathematics (3 Credits)

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical

literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Or Choose Any GT-MA1 Mathematics

MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 120 Highlights connections between mathematics and the society in which we live and is intended for liberal arts majors. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1320 - Finite Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appropriate placement scores
Formerly MAT 123 Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores

Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2431 - Calculus III with Engineering Applications: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2420
Formerly MAT 204 Focuses on the traditional subject matter of multivariable Calculus with an additional emphasis on word problems and problem solving. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals, Stokes', Divergence Theorems and Green's Theorems, and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2520 - Discrete Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2410
Formerly MAT 215 Concentrates on formal logic, algorithms, induction proofs, equivalence relations and graphs. This course is designed for mathematics and computer science students. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2561 - Differential Equations with Engineering Applications: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2430 or MAT 2431
Formerly MAT 261 Introduces ordinary differential equations. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms with an additional emphasis on engineering applications and problem solving. Appropriate technology related to the mathematical field may be used as a component of the course. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2560 - Differential Equations: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 2420
Formerly MAT 265 Explores techniques of problem solving and applications. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Semester 3 - Fall (12 Credits)

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MGD 1012 - Adobe Illustrator I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 112 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 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications, conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

MGD 1033 - Graphic Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1011 or MGD 1012 or MGD 1013 or MGD 1015
Formerly MGD 133 Focuses upon the study of design layout and conceptual elements concerning graphic design projects such as posters, advertisements, logos, and brochures

MGD 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard

development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

Semester 4 - Spring (15 Credits)

MGD 2033 - Graphic Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1033
Formerly MGD 233 Continues instruction in idea development for advanced graphic design

MGD 2041 - Web Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 241 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 Web sites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

MGD 2056 - Graphic Design Production

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): (MGD 1020 or MGD 1015 or 1014) and MGD 1012 and MGD 1013
Formerly MGD 256 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 2068 - Business for Creatives

Credit(s): 3
Lecture Hour(s): 3
Formerly MGD 268 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.

Human Nutrition (3 Credits)

HWE 1050 - Human Nutrition

Credit(s): 3
Lecture Hour(s): 3
Formerly HWE 100 Introduces basic principles of nutrition with emphasis on personal nutrition. This course focuses on macro and micro nutrients and their effects on the functions of the human body. Special emphasis is placed on the application of wellness, disease, and lifespan as it pertains to nutrition.

Or Choose any GT-SC1 Physical & Life Sciences with lab

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English
Formerly ANT 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1110 - Astronomy I With Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 101 Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 102 Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT- SC1 category.

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and CHE 1011
Formerly CHE 102 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, Intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1005 - Chemistry in Context with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 105 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340

Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ENV 1111 - Environmental Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly ENV 101 Introduces the basic concepts of ecology and the relationship between environmental problems and biological systems. This course includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. A holistic approach is used when analyzing how the foundations of natural sciences interconnect with the environment. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1011 - Physical Geography: Landforms with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 111 Examines 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. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 112 Introduces the principles of meteorology, climatology, ecology, and regional climate classification. The course investigates the geographic factors which influence climate and ecosystems such as topography, elevation, winds, ocean currents, and latitude. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

Credit(s): 4
Lecture Hour(s): 3

Academic Lab Hour(s): 2
Prerequisite(s): GEY 1111
Formerly GEY 112 Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1135 - Environmental Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 135 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MET 1050 - General Meteorology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly MET 150 Provides an introduction to general meteorology and atmospheric sciences. Includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Examines the development of weather system, such as storm systems, hurricanes, weather fronts, and cloud development. Stresses the concepts of climatology. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1107 - Energy Science & Technology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): MAT 0300 with a grade of S/C or better.
Formerly PHY 107 Explores the science of energy and energy technologies with a focus on renewable energy resources and clean technologies. The course provides a background in the physics of energy, energy transfer, and the current state of energy technology. Evaluation of the future utilization of renewable technologies is included. Topics may include conservation of energy; mechanical, electrical, heat, and fluid power systems; energy transfer and loss; energy audits; and testing solar collectors and wind generators. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)

Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Semester 5 - Summer (6 credits)

MGD 2080 - Internship

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 280 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 2089 - Capstone

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 289 A demonstrated culmination of learning within a given program of study.

Healthcare Information Systems AAS

See list of Department Chairs on the Personnel Page

Program Description

Would you like to solve problems to improve patient care? Improve the delivery of healthcare through technology? Impact the clinical workflow? Healthcare extends beyond direct patient care. Explore the various opportunities in health technology and information management to revolutionize the world of healthcare through the power of information and technology.

This degree prepares the students for rewarding careers in healthcare that facilitates the work of front-line providers and makes a difference in patients' lives. Healthcare Information Systems professionals play a vital role in the day-to-day operations but work behind the scenes to empower their colleagues by providing high-quality, efficient, secure, and user-friendly electronic systems. Some of the many roles and duties include:

- Information system management, implementation, and updates

- Health Informatics Specialist
- Data management
- Analysis and reporting
- Information compliance and security
- Collaboration, training, and support
- Health Information Technologist and Registrars

Some of the potential workplaces:

- Hospitals and Health Systems
- Physician and Dentist Offices
- Government Agencies
- Health Plans
- Technology Vendors
- Research/Academic Institutions

Projected Job and Wage Growth 2023 – 2033 is BRIGHT!!

PCC is an Organizational Affiliate of the global Health information Management Systems Society (HIMSS), as well as a HIMSS Approved Educational Provider (AEP). HIMSS is the premier international association of health information systems management professionals and the leading source of innovation and progress within healthcare management systems.

Through this program, PCC HIT students are prepared to sit for the Certified Associate of Health Information Management Systems (CAHIMS) credential.

Total Credits: 63

General Education (15 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

- Gen Ed Elective (PSY or COM) **Credit(s):** 3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

HIT Core Curriculum (22 credits)

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 102 Introduces medical vocabulary through the study or word structures and phrases. Reinforcement is provided through writing narratives and examining medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis will be on learning to read, pronunciation and interpretation of medical documentation . The importance of HIPAA is illustrated, in both physical and electronic dissemination of medical records.

HIT 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 111 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 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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 2061 - Healthcare Software

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 261 This course covers basic computer system architecture, file structure, and design for health care 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 2022 - Quality Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 222 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 1012 - Legal Aspects for Health Records

Credit(s): 2
Lecture Hour(s): 2
Formerly HIT 112 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 2089 - HIT Capstone Course

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required
Formerly HIT 289 Provides a demonstrated culmination of learning within a given program of study.

HIT 1089 - Practicum

Credit(s): 3
Practicum Hour(s): 9
Prerequisite(s): Department chair approval
Provides an opportunity to gain practical experience in applying skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

HIT Information Systems (20 credits)

HIT 1020 - Working with Health IT Systems

Credit(s): 4
Lecture Hour(s): 4
Formerly HIT 120 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.

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

HIT 1022 - Workflow Fund of Healthcare

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 122 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.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

HIT Electives (6 credits)

Choose two courses from:

HIT 1075 - Special Topics

Credit(s): 0-12
Formerly HIT 175 Provides students with a vehicle to pursue in depth exploration of special topics of interest.

HIT 2064 - Data Visualization

Credit(s): 4
Lecture Hour(s): 4
Formerly HIT 264 Introduces data visualization tools and techniques software, as well as increasing proficiency in Excel. Students will be able to tell a story with data, communicating observations in a clear, compelling way that provides meaning and explanation. As part of this course, students are also required to complete a professional practicum experience to apply classroom knowledge in a clinical setting.

HIT 2065 - Data Analytics Applications

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 265 Deepens understanding of current and emerging practices in the application of data analytics. Topics include clinical, financial, operations and qualitative analytics; trends in practices; customer expectations; regulations that affect analytics; and ethical issues in gathering, analyzing and reporting healthcare data. Explore the roles and applications of descriptive, retrospective and prescriptive analytics in various settings.

HIT Medical Coding AAS

See list of Department Chairs on the Personnel page.

Program Description

Health Information Technology (HIT) encompasses the study of healthcare and information technology. The PCC program offers a solid foundation for employment throughout the revenue cycle (from a patient's first appointment to the time the bill is paid in full). The HIT Associate of Applied Science with emphasis in Medical Coding is expanding on the Medical Coding Certificate by including courses of a more managerial aspect of the field, such as Legal Aspects of Health Information, Quality Improvement, and Health Information Management.

Growing Demand for Health Information Skills

The need for health information professionals is expanding in various areas of healthcare, creating opportunities to:

- Specialize or diversify in practice areas

- Engage in roles related to:
    - Data analysis
    - Information technology
    - Management and administration
    - Communication and collaboration
    - Education and training
    - Regulatory compliance and privacy
    - Documentation and research
    - Quality improvement

Accreditation and Credentials

The PCC HIT Program accreditation by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) makes the PCC HIT students:

- prepared to earn AHIMA medical coding credentials
- eligible to sit for the Registered Health Information Technician (RHIT) professional credentialing exam

Total Credits: 63

State Guaranteed Transfer Courses (16 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Core Curriculum Requirements (25 credits)

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 102 Introduces medical vocabulary through the study or word structures and phrases. Reinforcement is provided through writing narratives and examining medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis will be on learning to read, pronunciation and interpretation of medical documentation . The importance of HIPAA is illustrated, in both physical and electronic dissemination of medical records.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

HIT 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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 2061 - Healthcare Software

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 261 This course covers basic computer system architecture, file structure, and design for health care 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 2025 - Health Information Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 225 Concentrates on the principles of management as they relate to the administration of the health information management department as part of a health care organization.

HIT 2022 - Quality Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 222 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 1012 - Legal Aspects for Health Records

Credit(s): 2
Lecture Hour(s): 2
Formerly HIT 112 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 2089 - HIT Capstone Course

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required
Formerly HIT 289 Provides a demonstrated culmination of learning within a given program of study.

HIT 1089 - Practicum

Credit(s): 3
Practicum Hour(s): 9

Prerequisite(s): Department chair approval
Provides an opportunity to gain practical experience in applying skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Medical Coding (22 credits)

HIT 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 111 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 2020 - ICD Coding I

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032
Formerly HIT 220 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 2041 - CPT Coding Basic Principles

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032.
Formerly HIT 241 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.

HPR 1032 - Disease Process and Treatment

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): BIO 1006
Formerly HPR 232 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 2052 - ICD Coding II for Certification

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020, HIT 2041
Formerly HIT 252 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 1005 - Principles of Healthcare Reimbursement

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020 and HIT 2041
Formerly HIT 105 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 1088 - Health Information Practicum I

Credit(s): 2
Practicum Hour(s): 4
Prerequisite(s): HIT 2052 or Department Chair Approval
Formerly HIT 188 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.

Industrial Technology Maintenance, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Industrial Technology Maintenance Program provides the student with knowledge and essential skills in the complex electro-mechanical systems found in production facilities. Learn about digital electronics, print reading, motors and controls, and mechanical components. Be prepared for the work force needs in this growing industry. The Program's name (formerly Electromechanical Technology) was changed to Industrial Technology Maintenance to align with industry certifications.

Total Credits: 62

General Education Requirements (16 credits)

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

COM 1105 - Career Communication

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 105 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

Core Requirements (28 credits)

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

ELT 2252 - Motors and Controls

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 252 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 2254 - Industrial Wiring

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 254 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 2357 - Sensors and Transducers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 257 Enables the student to study, construct, test and evaluate methods of testing and controlling common industrial processes. Includes sensing systems, transducers, measurement techniques, systems interfacing, process control and data acquisition.

ELT 2358 - Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): (ELT 1206 or EIC 1201) AND ELT 2252
Formerly ELT 258 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 2359 - Advanced Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 2358
Formerly ELT 259 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 2080 - Internship

Credit(s): 1-12
Internship Hour(s): 3-36
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 280 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 2089 - Capstone: Automated Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 289 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.

Requirements (18 credits)

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50

Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 2065 - Mechanical Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 265 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation and maintenance of plant equipment. It includes keys, keyways, belts, chains and drives, gears and drives, seals, shafts, and coupling alignment.

MTE 2320 - Fluid Power Control

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): MTE 1102 or Corequisite below
Corequisite(s): MAT 1140 or higher
Formerly MTE 238 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.

WEL 1025 - Introduction to Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024.
Formerly WEL 125 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.

Law Enforcement, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The Law Enforcement program prepares students for careers in law enforcement as a police officers, desk officer, bailiff or corrections officer. Additionally, students could work as criminal investigators, detectives, police agencies, or in correction and judicial facilities.

Program Description

The Law Enforcement program teaches students an in-depth analysis of the three (3) components of the criminal justice system (law enforcement, the judicial system and corrections) with special emphasis on criminology, substantive criminal law, procedural criminal law and constitutional law. It places a strong emphasis on reading and comprehension skills, written and verbal communication skills and empathetic awareness of cultural diversity.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption to complete the Criminal Justice courses. Admission into the Law Enforcement Academy courses requires a student to file an application with the PLEA Department Chair and meet specific guidelines prior to admission into the program (such as state statutory requirements for background checks). You may enroll in PLEA courses only if you are admitted into the program.

Graduation Requirements:

In addition to program requirements for this program, you must complete ENG 1021, COM 1150, MAT 1140 and six (6) credits of social and behavioral science courses.

Total Credits: 67

Degree Requirements

General Education Requirements (15 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

- Select two courses in Social & Behavior Science **Credit(s): 6**

Related Requirements (15 Credits)

CRJ 1010 - Intro to Criminal Justice: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 110 Introduces the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives, and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1035 - Judicial Function

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 135 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 1045 - Correctional Process

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 145 Examines the history of corrections in America from law enforcement through the administration of justice, probation, prisons, correctional institutions, and parole. This course examines the theories, rationales for punishment, and the political system in which corrections, as a component part of the criminal justice system, needs to operate. The course emphasizes legal, sociological, psychological, and other interdisciplinary approached that effect the operation of a correctional system.

CRJ 2010 - Constitutional Law

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 210 Focuses on the powers of government as they are allocated and defined by the United States Constitution. The course includes intensive analysis of United States Supreme Court decisions.

CRJ 2030 - Criminology

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 230 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.

or

CRJ 2080 - Cooperative Education/internship

Credit(s): 3
Internship Hour(s): 9
Formerly CRJ 280 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Common Core Requirements (37 Credits)

LEA 1001 - Basic Police Academy I

Credit(s): 6
Lecture Hour(s): 6
Formerly LEA 101 Conforms to POST (Peace Officer standards and Training) standards and Colorado 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 both a lecture and laboratory mode of learning.

LEA 1002 - Basic Police Academy II

Credit(s): 12
Lecture Hour(s): 12
Formerly LEA 102 Conforms to POST (Peace Officer Standards and Training) 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 1003 - Basic Law Enforcement Academy III

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly LEA 103 Enhances the standards established by the Colorado P.O.S.T. Board and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a Police Officer. Emphasis will be on expanding the Colorado P.O.S.T. curriculum to create a unique learning experience.

LEA 1005 - Basic Law

Credit(s): 8
Lecture Hour(s): 8
Formerly LEA 105 Conforms to the Colorado POST (Peace Officer Standards and Training) 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 1006 - Arrest Control Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 106 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace office. Exploration of the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Explains the continuum of force and de-escalation of force.

LEA 1007 - Law Enforcement Driving

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 107 Exploration of 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 1008 - Firearms

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 108 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. 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 be able to explain the firearms role within the continuum of force.

Library Technician, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The LTN program prepares you for a career in a variety of information environments including academic libraries, public libraries, school media centers, special libraries – corporate, correctional, law and medical – and other information services. In rural settings, the Library/Media Technician manages the library/media center and is the person responsible for providing additional library services, such as maintaining the computerized catalog and library webpage, conducting patron orientation and directing library programs.

Program Description

This program offers instruction in a variety of library functions including collection management (selecting and acquiring materials); cataloging; processing and repair of library materials; circulating and shelving materials; helping patrons with reference, readers' advisory and resource sharing services; and managing a small library or media center.

We also train you in the nontechnical skills you need to be a successful library technician: customer service, listening, speaking, writing, attention to detail and working as a member of a team.

Program Requirements

Entrance Requirements:

The LTN program is designed for the student who, because of time or distance constraints, is looking for an online degree. The courses use the Desire2Learn platform.

If you plan to transfer to a bachelor's level program, consult with your advisor to determine the transferability of courses.

Total Credits: 60

Degree Requirements

General Education Requirements (33 Credits)

* General Education must total 33 credits.

- English/Speech (Select one) **Credit(s): 6**
    - (ENG 1021 and COM 1150) or COM 1250
- Mathematics **Credit(s): 3**
    - MAT 1140 or higher
- Social and Behavioral Sciences **Credit(s): 12**
- Arts and Humanities **Credit(s): 12**

English/Speech (6 Credits)

Select one:

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3

Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Mathematics

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

Core Curriculum Requirements (18 Credits)

LTN 1001 - Introduction to Library Services

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 101 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 1010 - Selection and Acquisitions

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 110 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 1015 - Library Circulation

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 115 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 2005 - Introduction to Cataloging & Classification

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 205 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 2010 - Reference Materials

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 210 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 2020 - Library/Media Center Management & Public Relations

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 220 Includes budget preparation, how to work with staff, the public, and administrators, and the use of statistics.

Electives Approved by Advisor (9 Credits)

All electives must be approved by the LTN Advisor. Students must take sufficient electives to meet the minimum 60 credit hour requirements for the associate degree.

Machining Technology, AAS

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Career Opportunities

The AAS Degree and certificate programs in Machining Technology prepare you to enter the manufacturing world using the latest technology and metalworking skills.

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

The AAS degree provides training in advanced manufacturing using manual and computer-controlled machines. Students will use CAD CAM software to create three-dimensional drawings, solids and surfaces. Students will then

utilize geometry to create parts, which are then inspected for industry standard accuracy with top-of-the-line metrology equipment. If completing the AAS degree or currently working in the field, CAD CAM certification and NIMS credentials may be available.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 63

Degree Requirements

General Education Requirements (15 Credits)

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

- Any combination of Arts/Humanities/Social Sci/COM/Science **Credit(s): 5**

Core Curriculum Requirements (48 Credits)

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 1030 - Conventional Lathe Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 130 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 1031 - Milling Machines & Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 131 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 1041 - Advanced Machining Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 141 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 stressed and students will be required to produce parts manufactured by local manufacturing companies with the consideration of ISO quality standards.

MAC 2003 - Introduction to CNC Operations

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 203 Introduces basic writing and editing of CNC programs. G&M codes, math, speeds feeds, production processes including basic process controls, simple fixturing, and documentation associated with manufacturing will be covered.

MAC 2008 - CNC Operations II

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 208 Further develops skills in writing and editing advanced CNC programs. G&M codes, math, speeds deeds, production processes including multi-part, process controls, fixturing, and documentation associated with manufacturing will be covered.

MAC 2043 - Mastercam

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly MAC 243 Introduces the concepts of creating basic 2D and 3D Mastercam wireframes, building and manipulating surfaces and solids. The practices and techniques of fixture incorporation, tool pathing, and machine code generation will be discussed. Basic user interfaces and custom interface setup will be covered, as well as common file storage.

MAC 2041 - CAD CAM 2D Lab

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly MAC 241 Requires students to produce a variety of lab exercises on robotic machinery in conjunction with MAG 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 2050 - Advanced Inspection Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly MAC 250 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.

EGT 2305 - Geometric Dimension & Tolerance

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CAD 1100 or MAC 1002 or EGT 1101
Formerly EGT 205 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.

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

Medical Assistant, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Medical Assistant Program will prepare the student to primarily work in the back office of a medical practice, along with some basic front office duties. Students will be taught the clinical tasks of drawing blood, giving injections, performing lab tests, take patient history, and measuring vital signs. The administrative tasks include: scheduling appointments, code medical information, and financial bookkeeping. Students will serve an internship and prepare for a national certification exam to become a Registered Medical Assistant.

Total Credits: 60

General Education Requirements (30 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

OR

- Higher GT level mathematics **Credit(s): 3**

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

OR

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 106 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.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

- Guaranteed Transfer pathway courses **Credit(s): 12**

Core Curriculum: 30

Semester 1 Fall: 17

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

MAP 1010 - Medical Office Administration

Credit(s): 4
Lecture Hour(s): 4
Formerly MAP 110 Introduces the administrative duties specifically used in medical offices.

MOT 1025 - Basic Medical Sciences I

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 125 Introduces the anatomy, 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 to the medical office technology personnel.

MOT 1026 - Basic Medical Sciences II

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 133 Introduces the anatomy, physiology, pathophysiology, and drug therapy of the cardiovascular, respiratory, integumentary, and senses systems. The scope of the material is limited for the medical office technology personnel.

MOT 1027 - Basic Medical Sciences III

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 135 Introduces the anatomy, physiology, pathophysiology, and drug therapy of the renal, reproductive, neurological, and endocrine systems. The scope of material is limited for the medical office technology personnel.

MAP 1050 - Pharmacology for Medical Assistants

Credit(s): 3
Lecture Hour(s): 3
Formerly MAP 150 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.

Semester 2 Spring: 13

MAP 2038 - Medical Assisting Laboratory

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 4
Prerequisite(s): Department Chair Approval.
Formerly MAP 138 Introduces basic, routine laboratory skills and techniques for collection, handling, and examination of laboratory specimens often encountered in the ambulatory care setting.

MAP 2040 - Medical Assisting Clinical Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 4
Prerequisite(s): Department Chair Approval.
Formerly MAP 140 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 1083 - Medical Assistant Internship

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): Department Chair Approval.
Formerly MAP 183 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.

MAP 2069 - Review for Medical Assistant National Exam

Credit(s): 1
Lecture Hour(s): 1
Formerly MAP 189 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 Sonography, AAS

See list of Department Chairs on the Personnel page.

Program Description

Diagnostic Medical Sonography (DMS) prepares you to use highly complex medical imagine equipment, analyze acquired images for quality, assess patient condition, and apply appropriate techniques of patient care and education. In addition to fostering your intellectual growth, we advise you to exercise good judgment, demonstrate a professional demeanor, display the highest moral and ethical standards, and promote the safety of yourself and your patients.

The Diagnostic Medical Sonography program has a selective admissions process. The program application and requirements are available in the Health & Public Safety office or at Pueblo Community College DMS. Applications are provided during Spring Semester DMS 1001 course. All Health & Public Safety programs have essential functions to help you be successful in the program and career.

All applicants must possess a **two-year health-related (patient care-related) degree or a four-year degree from a regionally accredited institution**. As long as the applicant has one of these degree types and have completed program prerequisite courses, the program is the same and results in an AAS degree.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Total Credits: 70.5

General Education: 17

Fall: 14

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

Spring: 13

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

RTE 2055 - Multiplanar Sectional Imaging

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): BIO 2101
Formerly RTE 255 Offers advanced knowledge in multi-planar/multi-modality sectional anatomy for medical imaging professionals.

DMS 1001 - Introduction to Sonography

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): BIO 2101 and College Readiness in English
Formerly DMS 101 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.

1 Courses are required to be successfully completed or in progress during spring semester to apply to program

2 If applicant holds a 2-year Health Degree—Please see Department Chair

Core Curriculum: 48.5

First Fall: 11.5

DMS 2201 - OB/GYN Ultrasound I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Program admission and DMS 1001.
Formerly DMS 221 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 2101 - Abdominal Ultrasound I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Program admission and DMS 1001.
Formerly DMS 231 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 2001 - Ultrasound Physics I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Program admission and DMS 1001
Formerly DMS 241 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 2111 - Ultrasound Scanning Lab

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): Program admission. Enrollment in a DMS Program.
Formerly DMS 244 Prepares the general sonography student for an ultrasound internship with an emphasis on abdominal, superficial structure, gynecological and obstetrical scanning. Ergonomics, applied instrumentation, image optimization, and history integration will be covered as well.

DMS 2080 - Clinical Observation

Credit(s): 2.50
Internship Hour(s): 7.50
Prerequisite(s): BIO 2101, BIO 2102, RTE 2055.
Formerly DMS 280 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.

First Spring: 14

DMS 2202 - OB/GYN Ultrasound II

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2101, DMS 2001, DMS 2081.
Formerly DMS 222 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 2102 - Abdominal Ultrasound II

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2001, DMS 2081.
Formerly DMS 232 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 2002 - Ultrasound Physics II

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2101, DMS 2001, DMS 2082.
Formerly DMS 242 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 2081 - Clinical Internship I

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): DMS 2111 , DMS 2080.

Formerly DMS 281 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Summer: 12

DMS 2100 - Small Parts Ultrasound

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2101, DMS 2001, DMS 2081.
Formerly DMS 205 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 2400 - Vascular Ultrasound

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2101, DMS 2001, DMS 2081.
Formerly DMS 206 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 2082 - Clinical Internship II

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): DMS 2081.
Formerly DMS 282 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Second Fall: 11

DMS 2083 - Clinical Internship III

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): DMS 2082.
Formerly DMS 283 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

DMS 2089 - Ultrasound Capstone

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): DMS 2082.
Formerly DMS 289 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Nursing, LPN to ADN, AAS

See list of Department Chairs on the Personnel page.

Program Description

The LPN-ADN program teaches you skills of direct patient care and critical thinking in the role of a registered nurse that you can apply in any healthcare setting. It offers theoretical and applied instruction in classrooms, simulated laboratories, and clinical settings. It integrates education in adult, gerontological, obstetric, pediatric, and psychiatric-mental health nursing. Your clinical learning will take place in diverse types of institutions.

The Nursing program has a selective and limited admission policy. The application is available online at Pueblo Community College Nursing from August 1, 2025 – September 17, 2025 (date tentative). **Third Wednesday in September annually**

All Health Professions programs have essential functions to help you be successful in the program and career. Applicants must have a current Colorado LPN license in good standing. PCC will accept a block transfer of up to 21 credits. Official transcripts from the student's LPN program and proof of LPN licensure are required for admission to this program. PCC will accept a block transfer of up to 24 PLA credits.

In progress grades will be accepted, however, course must show in progress at time of application and be completed in Fall semester. It is the applicant's responsibility to submit final spring semester course grade(s) as soon as possible to the admission committee for consideration**.**

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The LPN-ADN program prepares you to provide safe, therapeutic, and competent nursing care in hospitals and other healthcare settings.

Total Credits: 71.5

General Education and Program Prerequisites

First (11 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Second (12 credits)

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated

homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

1 Course must be completed within 10 years of entrance into the program

2 The 10-year science requirement will not apply to LPNs with 2000 hours worked in the past two (2) years

Program Course Schedule

Apply to the Program – **October 1 to November 13** for spring admission

Application is online at Pueblo Community College Nursing

Accepted applicants must have a current Colorado LPN license in good standing and 21 credits will be transcribed as prior learning credits to complete this degree.

Credits received for Practical Nursing License: 24

Spring (9 credits)

NUR 2012 - Pharmacology II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing program and successful completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 2011 or permission of the program director.
Formerly NUR 212 Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence- based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

NUR 2011 - Psychiatric-Mental Health Nursing

Credit(s): 4
Lecture Hour(s): 2.70
Clinic Hour(s): 3.90

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of program director.
Formerly NUR 211 Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders.

Summer (6.5 credits)

NUR 2006 - Advanced Concepts of Medical-Surgical Nursing I

Credit(s): 6.50
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 9

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of the program director.
Formerly NUR 206 Builds on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse, high acuity medical surgical adult patients. The course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse. The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

Fall (9 credits)

NUR 2016 - Advanced Concepts of Medical Surgical Nursing II

Credit(s): 5
Lecture Hour(s): 2.30
Clinic Hour(s): 8.10

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2006 and NUR 2012 or permission of the program director.
Formerly NUR 216 Continues to build on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical surgical conditions. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse in high acuity settings. The application of knowledge and skills occurs in a variety of clinical settings.

NUR 2030 - Transition to Professional Nursing Practice

Credit(s): 4
Lecture Hour(s): 1.60
Clinic Hour(s): 7.20

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2016 or permission of the program director.
Formerly NUR 230 Provides an integrative experience applying all dimensions of the professional nurse when caring for diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed in this seminar and practice capstone course. Leadership and the management of multiple patients are emphasized. The application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

Occupational Therapy Assistant, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The OTA Program prepares you for a career in helping others improve their quality of life. You will use rehabilitative activities and exercises to help clients of all ages overcome physical, emotional, mental and/or social challenges and maximize one's independence in their activities of daily living. You can work in hospitals, schools, mental health centers, skilled nursing facilities and in the community. PCC graduates hold positions throughout Colorado and in many different states. The US Department of Labor projects that this will be one of the fastest-growing careers in the foreseeable future.

Program Description

This program teaches you to work under the supervision of a registered occupational therapist to assess clients of all ages, design individual rehabilitative programs, create goals and help clients meet their goals while monitoring their progress.

The program consists of 18 months of academic preparation and 16 weeks of fieldwork prior to graduation. When you graduate from the program, you are eligible to take the national certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT). In addition, Colorado requires licensure through the Colorado Department of Regulatory Agencies (DORA).

Program Requirements

Entrance Requirements:

The OTA program has a selective admissions policy due to a limited number of fieldwork sites. You must submit a completed application packet, available through the Health and Public Safety office or on the Pueblo Community College's OTA website (available Nov. 1-March 1). You must have completed all basic skills requirements to perform at a college level in Reading, Math and English. You must also have a cumulative 2.5 GPA in college courses or on high school transcripts if no college courses have been taken. In addition, you must have vision, hearing, tactile sensation, gross and fine motor strength and coordination, memory, critical thinking and interpersonal skills adequate to allow effective communication, ensure safety of self and others, document accurately, and provide effective assessment and treatment in order to meet facility standards.

The OTA Program is primarily an in-person program and requires one to bring their own computer device to campus for instructional purposes. Please refer to this link for further information: https://www.pueblocc.edu/IT

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for the NBCOT certification exam. Contact NBCOT at 301.990.7979 or www.nbcot.org for an Early Determination Review.

Total Credits: 69

Degree Requirements

Note: All courses other than OTA may be taken prior to admission to the program.

Semester 1 — Fall

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

or

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

OTA 1000 - Introduction to Occupational Therapy

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Program admission or department approval
Formerly OTA 100 Explores career options, the history and philosophy of occupational therapy. This course identifies occupational therapy in relation to health and wellness as well as the roles between inter- and intra-professionals. This course discusses the ethical and legal implications of health care and explores basic sociological issues.

OTA 1005 - Occupational Disruption and Activity Analysis

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): Admission into the OTA program.
Formerly OTA 105 Explores the diseases and aspects of health and wellness common to occupational therapy intervention. This course explores occupational disruption and provides insight to various treatment methods and techniques as well as applying activity and task analysis.

OTA 1006 - Basic Occupational Therapy Frames of Reference and Documentation

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the OTA program.
Formerly OTA 106 Identifies common types of occupational therapy documentation and introduces basic documentation skills. This course explores models of practice, frames of reference, occupational therapy theories, along with the implications to occupational therapy practice and treatment interventions.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Semester 2 — Spring

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

or

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OTA 1021 - Assessing Movement Through Occupation

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): OTA 1005, BIO 1006 or BIO 2101
Formerly OTA 121 Introduces the effect of performance skills on occupational performance through assessments. This course explores muscle movement, body mechanics, transfers, range of motion, and manual muscle testing.

OTA 1022 - Origins of Occupation and Performance from the Neonate to Adulthood

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the OTA program.
Formerly OTA 122 Explores the impact of environment, community, and various contexts on the client. This course focuses on stages of development from neonate through middle age, along with influence of the Occupational Therapy Framework on an individual.

OTA 1025 - Basic Occupational Therapy Application to Mental Health

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1005, OTA 1006, PSY 1001 or PSY 1002 or PSY 2440
Formerly OTA 125 Identifies common signs and symptoms of mental illness affecting health and wellness. This course includes methods of screening and various occupational therapy techniques to assess and treat occupational disruption within a variety of contexts. This course embeds a level I psychosocial fieldwork experience.

OTA 1031 - Geriatric Concerns, Diseases and Treatment Techniques

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1005 and OTA 1006.
Formerly OTA 131 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.

Semester 3 — Summer

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OTA 1081 - Internship

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1031.
Formerly OTA 181 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 2017 - Occupational Therapy Rehabilitation Techniques

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): OTA 1021
Formerly OTA 217 Introduces treatment interventions and techniques common practiced to treat occupational disruption. This course emphasizes the health and wellness of clients using adaptive equipment, assistive devices, areas of occupation, and physical disability assessments that can assist in rehabilitation.

Semester 4 — Fall

- Humanities **Credit(s): 3**

or

- Social Behavioral Science **Credit(s): 3**

OTA 1082 - Internship

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 2018
Formerly OTA 182 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 1083 - Internship

Credit(s): 1
Vocational Lab Hour(s): 1.50
Corequisite(s): OTA 2021.
Formerly OTA 183 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 2016 - OT Application to Neurological Impairments

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1021.
Formerly OTA 216 Introduces skills necessary to work with diverse populations of individuals with varying neurological abilities. This course covers client-centered assessments, treatment interventions, and discharge planning.

OTA 2018 - Occupational Therapy Application to Adult Physical Disabilities

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): OTA 1021.
Formerly OTA 218 Introduces skills necessary for the selection and implementation of interventions common to physical disability diagnoses. This course emphasizes the importance of health and wellness and the consequences of occupational disruption.

OTA 2021 - Pediatric Concerns, Diseases, Disabilities, and Treatment

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1021 and OTA 1022.
Formerly OTA 221 Introduces skills necessary to select interventions for pediatric populations with common diseases and disabilities. This course explores the impact of environment, culture, and community on health and wellness.

OTA 2035 - Professional Management for the OTA

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the OTA program.
Formerly OTA 235 Introduces basic management skills for occupational therapy assistants. This course explores the role of occupational therapy assistants within research, common professional responsibilities, and the value of lifelong learning.

Semester 5 — Spring

*OTA 2080 AND OTA 2081 must be completed within 18 months of the didactic coursework.

OTA 2078 - OTA Seminar

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 2080 or OTA 2081.
Formerly OTA 278 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 2080 - Internship

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): All OTA courses except OTA 2078 and OTA 2081.
Formerly OTA 280 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 2081 - Internship

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): All OTA courses except OTA 2078 and OTA 2080.
Formerly OTA 281 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Paramedic to Associate Degree Nursing

See list of Department Chairs on the Personnel page.

Program Description

The Paramedic to ADN program teaches you skills of direct patient care that you can apply in any healthcare setting. It offers theoretical and applied instruction in classrooms, simulated laboratories, and clinical settings. The program

integrates education in adult, gerontological, obstetric, pediatric, and psychiatric-mental health nursing. Your clinical learning will take place in diverse institutions.

The Nursing program has a selective and limited admission policy. The application is available online at Pueblo Community College Nursing from August 1, 2025 – September 17, 2025 (date tentative). **Third Wednesday in September annually.**

All Health & Public Safety programs have essential functions to help you be successful in the program and career. Applicants must have current and unencumbered Colorado Paramedic certification. Applicants will receive a block transfer of up to 23 PLA credits.

In progress grades will be accepted, however, course must show in progress at time of application and be completed in Fall semester. It is the applican't sresponsibility to submit final spring semester course grade(s) as soon as possible to the admission committee for consideration.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The Paramedic-ADN program prepares you to provide safe, therapeutic, and competent nursing care in hospitals and other healthcare settings. You may also work as an entry-level patient-care manager.

Total Credits: 71.5

General Education and Program Prerequisite Courses

First (11 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy,

observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Second (12 credits)

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

1 Course must be completed within 10 years of entrance into the program

2 The 10 year science requirement will not apply to Paramedics with 2000 hours worked in the past two (2) years.

Program Course Schedule

Apply to the Program -- October 1 to November 15 for a spring start

Application is online at Pueblo Community College Nursing

Accepted applicants must have a current Colorado Paramedic license in good standing and 23 credits will be transcribed as prior learning credits to to complete this degree.

Spring (10 credits)

NUR 1068 - Introduction to Professional Nursing Practice for Paramedics

Credit(s): 1
Lecture Hour(s): .5
Vocational Lab Hour(s): 1.5
Prerequisite(s): Current Paramedic Certification, Admission to Associate Degree Nursing Program
Corequisite(s): NUR 1089
Introduces the paramedic to nursing principles that supports future clinical practice. These principles include the professional nursing role, nursing process, evidence based practice, and patient centered care. Nursing process will be defined as the essential core of practice for the professional nurse to deliver holistic, patient-centered care. Emphasis will be to demonstrate nursing skills common to the in-patient setting.

NUR 2012 - Pharmacology II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing program and successful completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 2011 or permission of the program director.
Formerly NUR 212 Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence- based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

NUR 2011 - Psychiatric-Mental Health Nursing

Credit(s): 4
Lecture Hour(s): 2.70
Clinic Hour(s): 3.90

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of program director.
Formerly NUR 211 Develops concepts of psychosocial integrity and emphasizes the function and responsibility of

nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders.

Summer (6.5 credits)

NUR 2006 - Advanced Concepts of Medical-Surgical Nursing I

Credit(s): 6.50
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 9

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of the program director.
Formerly NUR 206 Builds on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse, high acuity medical surgical adult patients. The course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse. The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

Fall (9 credits)

NUR 2016 - Advanced Concepts of Medical Surgical Nursing II

Credit(s): 5
Lecture Hour(s): 2.30
Clinic Hour(s): 8.10

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2006 and NUR 2012 or permission of the program director.
Formerly NUR 216 Continues to build on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical surgical conditions. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse in high acuity settings. The application of knowledge and skills occurs in a variety of clinical settings.

NUR 2030 - Transition to Professional Nursing Practice

Credit(s): 4
Lecture Hour(s): 1.60
Clinic Hour(s): 7.20

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2016 or permission of the program director.
Formerly NUR 230 Provides an integrative experience applying all dimensions of the professional nurse when caring for diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are

addressed in this seminar and practice capstone course. Leadership and the management of multiple patients are emphasized. The application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

Physical Therapist Assistant, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

PTAs work under the direction of physical therapists, helping to manage conditions such as back and neck injuries, sprains/strains and fractures, arthritis, burns, amputations, strokes, multiple sclerosis, birth defects, injuries related to work and sports, and many other conditions. You will work in a broad range of settings, including hospitals, outpatient clinics, rehabilitation facilities, skilled nursing, extended care, sub-acute facilities, homes, schools, fitness centers and sports training facilities.

Program Description

The AAS degree prepares you to serve as a PTA within 5 semesters. The program is offered 2-2½ days per week except during the clinical experiences which occur in the third and fifth semester. Clinical experiences are scheduled for 40 hours per week and placement is typically anywhere in Southern Colorado. Learning experiences include lecture and interactive lab opportunities in a spacious lab with state-of-the-art equipment.

The Physical Therapist Assistant Program at Pueblo Community College is accredited by the Commission on Accreditation in Physical Therapy Education, 3030 Potomac Ave, Suite 100, Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org. If needing to contact the program/institution directly, please call 719-549-3433 or email Lori.Mcgill@pueblocc.edu.

Students accepted into the PTA program must pass a background check and drug screen before being officially admitted into the program. The background check and drug screen must be repeated before the student begins the second year of the program. Students are responsible for all expenses associated with internships and must provide their own transportation to and from clinicals. Financial aid is available through the PCC Financial Aid Office. Additional scholarship and grant information will be posted on the PTA bulletin board as it becomes available.

Program Requirements

The PTA Program has a selective admissions policy. You must submit a PTA application that is available through the Health and Public Safety Division or the PTA website. General Education requirements include ENG 1021, COM 1150, PSY 1001, HPR 1038, BIO 2101 and PHY 1105. BIO 2101 and PHY 1105 must be completed before the application due date of May 25. All general education courses must be completed with a "C" or above and the applicant must have a minimum GPA of 2.50. Once in the program you must also have a health care provider CPR card to attend clinical experiences and you must provide proof of current immunizations and purchase liability insurance.

Note: Clinical sites used during the program require that you successfully complete a background check and drug screen. These need to be completed before final acceptance into the program.

Total Credits: 75

Degree Requirements

*** May** be completed prior to program admission
**** Must** be completed prior to program admission

Prerequisites

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Core Curriculum Requirements

Semester 1 — Fall

HPR 1017 - Anatomical Kinesiology

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): BIO 2101
Formerly HPR 117 Studies the Anatomical Bases of Human Movement.

PTA 1010 - Basic Patient Care in Physical Therapy

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.50
Prerequisite(s): Admission into the PTA program
Formerly PTA 110 Examines the basic patient care skills for the healthcare practitioner enabling understanding and demonstration of skills that include positioning, body mechanics, transfers, range of motion, palpation, vital signs, aseptic techniques, bandaging, medical terminology, activities of daily living (ADLs), wheelchair management, architectural barriers, and gait training.

PTA 1015 - Principles and Practices of Physical Therapy

Credit(s): 2
Lecture Hour(s): 2
Formerly PTA 115 Explores the history of the profession including definition, development and areas of practice. The role of the American Physical Therapy Association (APTA), the physical therapist assistant (PTA) and the relationship between the physical therapist (PT), PTA and other health care professionals are investigated. This course covers current issues and trends including professionalism, legal aspects, ethics, quality assurance, communications and reimbursement issues such as Medicare, Medicaid, Worker's Compensation and commercial insurance.

PTA 1031 - Professional Communications I

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission into the PTA program
Formerly PTA 131 Introduces oral and written professional communication in the physical therapy field. This course develops skills in verbal and non-verbal communication, performance evaluation, literature research, and presentation, use of editorial style and technology, and development of professional behaviors.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

Semester 2 — Spring

PTA 1020 - Modalities in Physical Therapy

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.50
Prerequisite(s): PTA 1010
Formerly PTA 120 Examines the theory and principles of physical therapy modalities. This course includes therapeutic heat and cold, traction, hydrotherapy, and light therapies.

PTA 1035 - Principles of Electrical Stimulation

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): PTA 1010
Formerly PTA 135 Explores the principles and application of electrical stimulation (ES) modalities currently used in physical therapy practice. This course enables the understanding of the electrochemical and physiological effects of electrical stimulation and identification of the various forms and applications of electrical stimulation modalities.

PTA 1040 - Clinical Kinesiology

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.5
Prerequisite(s): HPR 1017 and admission to the Physical Therapy Assistant Program
Formerly PTA 140 Focuses on the science of human motion, theories of biomechanics, and muscle and joint structure and function. This course emphasizes basic principles of therapeutic exercise and their application to specific body regions, and includes the application of kinesiology and exercise principles.

PTA 1041 - Professional Communications II

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): PTA 1031
Formerly PTA 141 Explores medical documentation of patient care as used in the profession of physical therapy throughout multiple practice settings. This course develops physical therapy documentation skills that use standardized formats and meet requirements of various payer sources and settings.

PTA 1024 - Rehab Principles of Medical I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the PTA program
Formerly PTA 124 Investigates the functioning, disability and health associated with a variety of genetic, developmental and neuromusculoskeletal conditions. The course covers medical management including pharmacology, and its impact on physical therapy rehabilitation principles are discussed. The course investigates evidence based practice for genetic, developmental, musculoskeletal, and neurological system diagnosis, as well as common medical and surgical conditions, will be reviewed as they relate to physical therapy rehabilitation.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Semester 3 — Summer

PTA 1034 - Rehabilitation Principles of Medical Management II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the PTA program
Formerly PTA 134 Investigates the functioning, disabilities and health associated with a variety of pathophysiological processes and conditions. Medical management, including pharmacology, and its impact on physical therapy rehab principles are discussed. Evidence based practice for cardiovascular, endocrine/metabolic, gastrointestinal, genital/reproductive, hematologic, immune, integumentary, hepatic/biliary, lymphatic, and respiratory system diagnoses as well as chronic pain diagnoses and common medical and surgical conditions will be reviewed as they relate to physical therapy rehab.

PTA 2080 - Internship I

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): PTA 1020 and PTA 1040
Formerly PTA 280 Focuses on an 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 provides supervision.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Semester 4 — Fall

PTA 2005 - Psychosocial Issues in Health Care

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): PTA 2080
Formerly PTA 205 Explores the psychosocial aspects of the patient and or 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 enabling the development of skills necessary to meet expectations and needs of members of society receiving health care services.

PTA 2030 - Orthopedic Assessment and Management

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.5
Prerequisite(s): PTA 1020 and PTA 1040
Formerly PTA 230 Examines the theory, principles, and practices of orthopedic conditions. This course includes assessment and management techniques pertaining to orthopedic conditions, goniometry, manual muscle testing, gait analysis, and posture analysis.

PTA 2040 - Neurologic Assessment and Management Techniques

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.50
Prerequisite(s): PTA 1020 and PTA 1040
Formerly PTA 240 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 2051 - Professional Communications III

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): PTA 1041
Formerly PTA 251 Advances development and application of the written and oral communication skills utilized in healthcare and physical therapy workplace settings.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Semester 5 — Spring

PTA 2078 - PTA Seminar

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): PTA 2030 and PTA 2080
Formerly PTA 278 Provides students with an experiential learning opportunity.

PTA 2081 - PTA Internship II

Credit(s): 5
Internship Hour(s): 15
Prerequisite(s): PTA 2080 and Prerequisite/Corequisite below
Prerequisite(s)/Corequisite(s): PTA 2030
Formerly PTA 281 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 2082 - PTA Internship III

Credit(s): 5
Internship Hour(s): 15
Prerequisite(s): PTA 2040 and PTA 2081
Formerly PTA 282 Incorporates advanced clinical experience providing hands on patient practicum skills and techniques. Students 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 presents an inservice on a physical therapy related topic.

Radiologic Technology, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The Radiologic Technology program prepares you for a career in radiologic technology (radiography). As a graduate of the program, you are eligible to take the American Registry of Radiologic Technologists (ARRT) national certification examination in radiography. You will specialize in radiographic procedures that demonstrate anatomy and pathologies on medical x-ray film, fluoroscopic screens and other electronic imaging devices. These images are, in turn, interpreted by radiologists and other physicians for the diagnosis and treatment of disease and injury.

Program Description

The AAS in Radiologic Technology prepares you to work as a critical member of today's health care team. We teach you important critical thinking/problem-solving techniques as well as interpersonal and communication skills that allow you to interact effectively with other health care team members, patients and families from a variety of professional, social, emotional, cultural and intellectual backgrounds. We provide you with the skills you need to work with highly complex medical imaging equipment, analyze acquired images for quality, assess patient condition and apply appropriate techniques of patient care and education, and achieve the highest degree of clinical competency. The program focuses on developing your intellectual abilities as well as the judgment you need to demonstrate a professional attitude and demeanor, display the highest moral and ethical standards, and foster the safety of yourself and your patients.

Program Requirements

Entrance Requirements:

Prerequisite Requirements: ENG 1021, BIO 1006, MAT 1140, RTE 1001, HPR 1038

Graduation Requirements:

PSY 2440, Arts/Humanities. In addition, students must complete all required Clinical Competencies.

Total Credits: 77

Degree Requirements

* Indicates prerequisite courses for program entry.

General Education Requirements (16 Credits)

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

- Arts/Humanities **Credit(s): 3**

  or
- Social and Behavioral Science **Credit(s): 3**

Related Requirements (3 Credits)

RTE 1001 - Introduction to Radiography

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): College Readiness in English
Formerly RTE 101 Introduces 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.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

Core Curriculum Requirements (58 Credits)

Semester 1 – Fall

RTE 1011 - Radiographic Patient Care

Credit(s): 2
Lecture Hour(s): 2
Formerly RTE 111 Introduces the fundamentals of human diversity; and legal and ethical considerations. Includes lecture and laboratory experience in patient care, standard and transmission based precautions, asepsis versus non-asepsis, vital signs, venipuncture, medical emergencies, drug administration, patients with specific needs and end-of-life interactions.

RTE 1021 - Radiologic Procedures I

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly RTE 121 Introduces the fundamentals of radiographic equipment to safely obtain radiographs, apply radiation safety techniques, and identify related positioning terminology. This course emphasizes identification of anatomy, common pathology, and radiographic terminology of the upper extremities, chest, and abdomen.

RTE 1031 - Radiographic Pathology/Imaging Evaluation

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly RTE 131 Provides an introduction to the evaluation of the pathologies related to the respiratory, digestive, and urinary systems on a radiographic image.

RTE 1041 - Radiographic Equipment and Imaging I

Credit(s): 3
Lecture Hour(s): 3

Formerly RTE 141 Introduces the fundamental aspects of radiographic equipment including the basic concepts pertaining to x-ray production, x-ray equipment, and photon interactions with matter.

RTE 1081 - Internship: Radiographic I

Credit(s): 5
Internship Hour(s): 15
Formerly RTE 181 Introduces the clinical education experience at the healthcare facility. The course focuses on the application of knowledge to the actual practice of radiography.

Semester 2 – Spring

RTE 1022 - Radiologic Procedures II

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): RTE 1021
Formerly RTE 122 Reinforces the fundamentals of radiographic positioning of the extremities. This course introduces anatomy, pathology, and skills necessary to perform radiographic procedures of the spine, bony thorax, and abdominopelvic region.

RTE 1032 - Radiographic Pathology and Image Evaluation II

Credit(s): 1.50
Lecture Hour(s): 1.50
Prerequisite(s): RTE 1031
Formerly RTE 132 Provides an introduction to the evaluation of the pathologies related to the skeletal, circulatory, and nervous systems on radiographic image.

RTE 1042 - Radiographic Equipment and Imaging II

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): RTE 1041
Formerly RTE 142 Provides in-depth knowledge of scatter control, radiographic exposure technique, image acquisition, process, and fluoroscopy. Includes criteria and factors that affect image quality, quality assurance and healthcare informatics

RTE 1082 - Internship: Radiographic II

Credit(s): 5
Internship Hour(s): 15
Prerequisite(s): RTE 1081
Formerly RTE 182 Builds upon prior clinical internship experience to advance student proficiency in the practice of radiography in the healthcare facility. The course focuses on the application of knowledge to the actual practice of radiography.

Semester 3 – Summer

RTE 1083 - Internship: Radiographic III

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 1082
Formerly RTE 183 Reinforces and builds independence in the clinical internship experience. Applies radiographic knowledge learned in the classroom and prior clinical internship experience.

Semester 4 – Fall

RTE 2021 - Advanced Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): RTE 1021
Formerly RTE 221 Offers advanced imaging techniques including radiographic procedures involving the skull, trauma, mobile, surgical, pediatric, special procedures and advanced modalities.

RTE 2031 - Radiation Biology/Protection

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 1041
Formerly RTE 231 Provides the basic knowledge and understanding of the biologic effects of ionizing radiation and radiation protection and safety.

RTE 2081 - Radiographic Clinical Internship IV

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): RTE 1083
Formerly RTE 281 Introduces the student to the radiographic specialty areas of Pediatrics, Geriatrics, the out-patient clinic, as well as increasing proficiency in general radiography.

Semester 5 – Spring

RTE 2082 - Radiographic Clinical Internship V

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): RTE 2081
Formerly RTE 282 Introduces the student to the radiographic specialty areas of pediatrics, geriatrics, the out-patient clinic, portable and trauma radiography as well as increasing proficiency in general radiography.

RTE 2089 - Capstone

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): RTE 2021 and RTE 2031
Corequisite(s): RTE 2082.

Formerly RTE 289 Prepares the radiologic technology student to sit for the American Registry of Radiologic Technologists (ARRT) certification examination through a comprehensive review of RTE program curriculum, with practice answering certification examination-type questions through the administration of multiple mock certification exams. Provides the student with the requisite skills to effectively search for a job in medical imaging.

Respiratory Therapy, AAS

See list of Department Chairs on the Personnel page.

Program Description

The AAS Degree prepares you to provide respiratory therapy to patients and educate them in their continuing care. In our off-campus scheduled clinical hours, you will provide respiratory therapy for patients under the supervision of preceptor or clinical instructor who is a licensed and credentialed respiratory therapist.

A respiratory therapist can provide care to patients by gathering patient data, performing a physical assessment, and making a diagnostic clinical treatment plan, which can include oxygen therapy, airway clearance therapy, aerosol therapy, medication delivery, airway management, arterial blood sampling, and most importantly invasive and non-invasive mechanical ventilation.

Because of the high level of personal and profession responsibility required of a respiratory therapist, you must have integrity, maturity, individual motivation, good interpersonal skills, excellent manual dexterity, and a solid science and general studies academic background to be successful in this program. We are firmly committed to fostering your intellectual growth and to developing well-qualified respiratory therapists with high professional standards and ethics.

The Respiratory Therapy program has a selective admissions process. The link for the online program application and admission requirements are posted on the Respiratory Therapy webpage now—June 1. All Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Total Credits: 74.5

General Education

Applicants must have all five (5) pre-requisites in process or completed at the time of application. All five (5) pre-requisites must be complete before the first fall program semester with a "C" or higher.

Fall (11 credits)

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Spring (8 credits)

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2

Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Core Curriculum Requirements

Apply to program by June 1

First Fall (12 credits)

RCA 1005 - Introduction to Respiratory Care

Credit(s): 1
Lecture Hour(s): 1
Formerly RCA 105 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 1041 - Basic Techniques in Respiratory Care

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.5
Prerequisite(s): Program admission
Formerly RCA 141 Introduces the principles and practices of respiratory therapy; including 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, the application of medical gases to the cardiopulmonary patient, and the application of high flow oxygen therapy to the cardiopulmonary patient.

RCA 1051 - Cardiopulmonary Anatomy and Physiology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Department Approval Required
Formerly RCA 151 Examines the cardiopulmonary anatomy and physiology related to respiratory therapy. This course also includes the study and analysis of the functional interrelationships between the pulmonary and cardiovascular systems.

RCA 1056 - Application of Science in Respiratory Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to the program.
Formerly RCA 156 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.

First Spring (13 credits)

RCA 1032 - Basic Techniques in Respiratory Care II

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Prerequisite(s): RCA 1041 or consent of the instructor
Formerly RCA 132 Introduces the principles and practices of respiratory therapy, to include the study and application of aerosol therapy for medication delivery, airway clearance, and lung expansion techniques to promote bronchial hygiene for patients with cardiopulmonary disease pathologies.

RCA 1053 - Cardiopulmonary Disease and Pathology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Program admission.
Formerly RCA 153 Covers the pathological abnormalities and clinical manifestations associated with cardiopulmonary diseases. This course includes the study of patient assessment, treatment modalities, and management for both chronic and acute cardiopulmonary diseases.

RCA 1066 - Monitoring and Diagnostics of the Cardiopulmonary Patient

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Program admission.
Formerly RCA 166 Provides the student an introduction to the monitoring and diagnostics for the cardiopulmonary patient, to include an analysis of the various clinical procedures, laboratory tests, and monitoring devices.

RCA 1010 - Pharmacology of Respiratory Therapy

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Department approval required
Formerly RCA 110 Introduces pharmacology associated with respiratory therapy, to include the study and application of prescribed medications for the indications, administration, adverse reactions and calculations; a study of specific topics include patient education of medication delivery devices, patient monitoring devices, utilization techniques, and the standards for therapeutic efficacy in relation to asthma, chronic obstructive pulmonary disease, and smoking cessation.

Summer (6.5 credits)

RCA 2035 - Mechanical Ventilation I

Credit(s): 2
Lecture Hour(s): 1

Vocational Lab Hour(s): 1.5
Prerequisite(s): Department approval required
Formerly RCA 235 Introduces the principles and practices of invasive and non-invasive mechanical ventilation, to include the study of respiratory failure and physiological effects of mechanical ventilation. This course covers the management of equipment for various types of mechanical ventilator systems.

RCA 2070 - Clinical I

Credit(s): 4.5
Clinic Hour(s): 13.5

Prerequisite(s): Department approval required.
Formerly RCA 270 Offers the clinical practicum required for the program.

Second Fall (12 credits)

RCA 2036 - Mechanical Ventilation II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): Department approval required. Elaborates on the principles and practices of mechanical ventilation in high-risk situations, to include the study of ventilator graphics, management of patient asynchrony with ventilator support, and long-term mechanical ventilation.
Formerly RCA 236 Elaborates on the principles and practices of mechanical ventilation in high-risk situations, to include the study of ventilator graphics, management of patient asynchrony with ventilator support, and long-term mechanical ventilation.

RCA 2046 - Neonatal and Pediatric Respiratory Care

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required
Formerly RCA 246 Introduces the theory and principles of respiratory therapy unique to pediatric and neonatology. This course examines fetal development, prenatal and antenatal assessment, and high risk delivery. Including the analysis of anatomy and physiology, clinical assessment, therapeutic modalities, and cardiopulmonary disorders for neonatal and pediatric patients.

RCA 2071 - Clinical II

Credit(s): 8
Clinic Hour(s): 24

Prerequisite(s): Department approval required.
Formerly RCA 271 Offers the clinical practicum required for the program.

Second Spring (12 credits)

RCA 2072 - Clinical III

Credit(s): 8
Clinic Hour(s): 24

Prerequisite(s): Department approval required.
Formerly RCA 272 Offers the clinical practicum required for the program.

RCA 2065 - Professional Development

Credit(s): 2
Lecture Hour(s): 2
Corequisite(s): RCA 2083 or consent of instructor.
Formerly RCA 265 Reviews the respiratory therapy concepts, theory, and therapeutic applications covered within the program curriculum to prepare for the national credential examination, job placement, and state licensure requirements.

RCA 2066 - Advanced Monitoring and Diagnostics of the Cardiopulmonary Patient II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Program admission.
Formerly RCA 266 Provides the student with an advancedopportunity for analysis and the monitoring and diagnosis of the cardiopulmonary patient, to include current medical diagnostic procedures, laboratory testing, and advance monitoring equipment.

Software Development and Security AAS

See list of Department Chairs on the Personnel page.

Program Description

The Computer Information Systems program provides skills to ensure secure programming. You will learn about essential principles of programming, security maintenance, and troubleshooting. If you plan to transfer for a bachelor's degree, refer to the Transfer Degree or speak with an advisor.

Career Options

The CIS Software Development and Security degree provides training to become a computer programmer.

Total Credits: 60

Semester One , Fall (13 credits)

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3

Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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 2020 - Fundamentals of Unix

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 220 Explores the structure and fundamentals of the Unix operating system including the file system and file processing, various utility programs, shell, multi-user operation, text processing, and communications.

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Semester Two, Spring (15 credits)

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CNG 1042 - Introduction to Cloud Computing Concepts

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 142 Introduces fundamental content on cloud computing including system analysis, requirements, configuration, deployment, and testing. This course includes information on management, business continuity, security, maintenance, updating, and troubleshooting as related to cloud computing.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CWB 2005 - Client-Side Scripting: (Software)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 205 Explores the client-side programming skills necessary to create dynamic web content using a markup embeddable and procedural scripting language executed on the client web browser.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures

Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Semester Three, Fall (16 credits)

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CNG 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 2017 - Advanced Python Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): ((CSC 1019 or CSC 1020) and MAT 1340 or higher) or CSC 1060
Formerly CSC 217 Continues program development and problem solving not covered in CSC 1019: Introduction to Programming. Students will create larger programs in the areas of advanced expression, iterator objects, parsing, and GUI applications.

CWB 2006 - Server-Side Scripting: (Software)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 206 Explores the creation of dynamic web pages and applications using server-side scripting with database interactivity, server-based scripting languages, and database manipulation languages.

Semester Four, Spring (16 credits)

CIS 2087 - Cooperative Education

Credit(s): 1-12
Internship Hour(s): 3-36
Formerly CIS 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

CSC 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

CSC 1029 - Introduction to Secure Coding

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1060
Formerly CSC 129 Focuses on introduction to secure coding. Emphasizes concepts, principles, and best practices of structured secure programs within security standards. Analysis of design of secure programming is stressed, including costs, threats, security concepts, policies, coding flaws, vulnerabilities, exploits, and code mitigation. Analysis of the design of legacy and contemporary object oriented languages is emphasized. Focuses on the application of secure coding principles, standards to resolve code flaws and vulnerabilities.

CSC 2025 - Computer Architecture/Assembly Language Programming

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1061
Formerly CSC 225 Covers how a computer operates and the relationship between machine code and the primary computer components. The course explores the design of the processor, registers, memory, and various types of storage. Assembly language is used for computer processes commands and how programming languages use memory addresses. Overview of architecture that is in development will be discussed.

CSC 2067 - Object-Oriented Analysis and Design

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 267 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.

Surgical Technology, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Surgical Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA).

The Surgical Technology program teaches students classroom and hands-on learning in surgical techniques, patient prep, and Operating Room (O.R.) prep. Students will learn how to create and maintain a sterile field. They will also learn how to scrub, gown, glove, drape, and use case management. Students will be taught hemostasis, how to use sutures, needles, stapling devices, and how to handle specimens. In addition, students will learn pharmacology and anesthesia, wound care, and use the principles of infection control. How to handle sharps, pass instruments and supplies during procedures will also be taught. Training will include how to perform surgical counts, room turnover and terminal cleaning processes. You will also learn to properly process and sterilize instruments. Finally, students will engage in extensive clinical work to gain experience working with surgeons and staff in a real O.R.

The Surgical Technology (STE) program has a selective admissions process. The program application and requirements are available in the Nursing Division office or at Pueblo Community College STE from January 1 to May 25. All Nursing Division programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for certification exams.

Career Information

At the completion of the program, students are eligible to sit for the National Certification Exam governed by the National Board of Surgical Technology and Surgical Assisting (NBSTSA). Upon passing, a surgical technologist can practice under the credentials of Certified Surgical Technologist (CST). A state license through The Colorado Department of Regulatory Agencies (DORA) is required to practice as a surgical technologist in the State of Colorado (requirements vary from state to state).

Total Program Credits – 64.5

Apply to program by May 15

NOTE:

Any students who have successfully completed both BIO 2101 Anatomy and Physiology I and BIO 2102 Anatomy and Physiology II will **not** need to take BIO 1006 Basic Anatomy and Physiology. Students in the program need to have full body anatomy and physiology knowledge.

Any students who have successfully completed BIO2104 Microbiology will not need to take BIO1016 Introduction to Human Disease.

Total Credits: 64.5

Pre-requisites (7 credits)

Applicants must have BIO 1006 Basic Anatomy & Physiology and one (1) ENG 1021 or COM 1250 pre-requisite course completed prior to application. All additional general education requirements must be taken as indicated in the Surgical Technology Program Schedule below.

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

1 Any three (3) credit hour COM course may be substituted upon department chair approval.

2 ENG or COM course not completed as a pre-requisite must be completed during second fall semester.

Note: Students who have successfully completed both BIO 2101 and BIO 2102 do not need to take BIO 1006. A full body anatomy and physiology knowledge is required.

First Fall (14.5 credits)

STE 1002 - Introduction to Surgical Technology

Credit(s): 6
Lecture Hour(s): 6
Prerequisite(s): Program Admittance
Formerly STE 102 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, surgical pharmacology and anesthesia, wound healing, sutures, needles, stapling devices and surgical instrumentation, equipment, and supplies. Perioperative technical skills of the surgical technologist will be demonstrated.

STE 1003 - Introduction to Surgical Technology Lab

Credit(s): 4
Vocational Lab Hour(s): 10
Prerequisite(s): Program Admittance
Formerly STE 103 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 1033 - Surgical Instruments Lab I

Credit(s): 1.5
Vocational Lab Hour(s): 3.75
Prerequisite(s): Program admittance.
Formerly STE 133 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. Introduces supplies, equipment, and the names, category, and use of instrumentation used for general, obstetric, gynecologic, otorhinolaryngologic, oral, maxillofacial, plastic, and ophthalmic surgical specialties.

BIO 1016 - Introduction to Human Disease: GT-SC2

Credit(s): 3
Lecture Hour(s): 3
Formerly BIO 116 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 is a statewide Guaranteed Transfer course in the GT-SC2 category. GT-SC2

Note: Students who have successfully completed BIO 2104 do not need to take BIO 1016.

First Spring (14 credits)

STE 1011 - Surgical Procedures and Case Management

Credit(s): 6
Lecture Hour(s): 6
Prerequisite(s): STE 1002
Formerly STE 111 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 neuro surgery. 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 1051 - Surgical Procedures & Case Management Lab

Credit(s): 4.5
Vocational Lab Hour(s): 11.25
Prerequisite(s): STE 1002, STE 1003, STE 1033
Formerly STE 151 Introduces surgical case management and the skills required for the surgical technologist to perform in the first and second scrub role in a simulated surgical environment, as it relates to general, obstetric, gynecologic, ophthalmic, otorhinolaryngologic, oral, maxillofacial, plastic, genitourinary, orthopedic, cardiothoracic, peripheral vascular, and neurologic surgical specialties.

STE 1034 - Surgical Instruments Lab II

Credit(s): 1.5
Vocational Lab Hour(s): 3.75
Prerequisite(s): STE 1002, STE 1003
Formerly STE 134 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. Introduces supplies, equipment, and the names, category, and use of instrumentation used for genitourinary, orthopedic, cardiothoracic, peripheral vascular, and neurologic surgical specialties.

STE 1005 - Pharmacology of Surgical Technology

Credit(s): 2
Vocational Lab Hour(s): 4
Formerly STE 105 This course discusses relevant knowledge as it pertains to surgical pharmacology theory, drugs, and aspects of anesthesia.

Summer (6 credits)

STE 2081 - Surgical Technology Clinical Internship I

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): STE 1011, STE 1051, STE 1034, STE 1005
Formerly 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 first of three surgical technology clinical internships.

Second Fall (12 credits)

STE 2082 - Surgical Technology Clinical Internship II

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): STE 2081.
Formerly 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 second of three surgical technology clinical internships.

STE 2069 - CST Exam Review Course

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): STE 2081.
Formerly STE 279, then STE 2079 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.

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Second Spring (11 credits)

STE 2083 - Surgical Technology Clinical Internship III

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): STE 2082.

Formerly STE 283 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 2089 - Surgical Technology Capstone

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): STE 2082, STE 2069
Formerly STE 289 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.

COM 2069 - Leadership

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 269 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.

HPR 1039 - Medical Terminology

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 139 Discusses the structure of medical terms with emphasis on using and combining prefixes, roots and suffixes. This class includes terms related to major body systems, oncology, and psychiatry, as well as clinical laboratory and diagnostic procedures and imaging, and provides accepted pronunciation and spelling of terms used in the healthcare setting.

Web Design and Development, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in

these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 60

Degree Requirements

General Education Requirements (15 Credits)

Communications

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

OR

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Mathematics

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical

literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OR

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Gen Ed Elective

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

Social Behavioral Sciences

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Digital Media Requirements

MGD 2080 - Internship

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 280 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 1015 - Typography & Layout

Credit(s): 3
Vocational Lab Hour(s): 4.50
Corequisite(s): MGD 1001 or MGD 1002 or MGD 1012 or MGD 1013
Formerly MGD 105 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 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications, conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

CWB 2009 - Web Content Management Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 209 Explores the use of open source Content Management Systems (CMS) to simplify the creation and maintenance of web sites.

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

MGD 2041 - Web Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 241 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 Web sites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

MGD 2068 - Business for Creatives

Credit(s): 3
Lecture Hour(s): 3
Formerly MGD 268 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 2089 - Capstone

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 289 A demonstrated culmination of learning within a given program of study.

MGD 2042 - Web Architecture: Open Source Design

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 242 Provides an overview of current open source tools used in the design industry for designing and implementing Web architecture. Course content changes with trends in the industry. Design focus is on information hierarchy in how it pertains to User Interface (UI) and User Experience (UX) and Search Engine Optimization (SEO). Topics include current content management systems (CMS) such as WordPress and/or Drupal, identifying web scripting languages, and an overview of open source programming and database integration.

CWB 2006 - Server-Side Scripting: (Software)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 206 Explores the creation of dynamic web pages and applications using server-side scripting with database interactivity, server-based scripting languages, and database manipulation languages.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

CWB 2008 - Web Application Development: (Development Tool(s))

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 208 Uses hands-on server-side scripting language and environment to teach the basics of application design including development of dynamic database driven web pages and application of key standards such as source and revision control, coding standards, code optimization, data integrity, and general principles that apply to most development environments.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

MGD 2027 - Marcomm Practices

Credit(s): 3
Lecture Hour(s): 3
Formerly MGD 227 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.

Welding Technology, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Welding AAS degree offers advanced training. Learn how to do Shielded Metal Arc and Gas Tungsten Arc Welding. Become familiar with cutting processes used in the field. You will learn about the properties of metals and how to read prints. Students can take qualification exams at the end of the semester in various welding processes.

Total Credits: 64

Semester One, Fall (16 credits)

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1001 - Allied Cutting Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 101 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 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

Semester Two, Spring (18 credits)

- Any general education course combination, including Arts/Humanities, Social/Behavioral Science, Communications, or Physical Life Science **Credit(s): 6**

WEL 1003 - Basic Shielded Metal Arc I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 103 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX10 electrodes.

WEL 1025 - Introduction to Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024.
Formerly WEL 125 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 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

Semester Three, Fall (16 credits)

WEL 1004 - Basic Shielded Metal Arc II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1003.
Formerly WEL 104 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX18 electrodes.

WEL 1006 - Blueprint Reading for Welders and Fitters

Credit(s): 4
Lecture Hour(s): 2

Vocational Lab Hour(s): 3
Prerequisite(s): WEL 1001 or WEL 1002
Formerly WEL 106 Covers interpretation and creation of weld symbols and blueprints used in metal fabrication.

WEL 2024 - Gas Tungsten Arc Welding II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Prerequisite(s): WEL 1024, WEL 1025.
Formerly WEL 224 Covers Gas Tungsten Arc Welding (GTAW) operations utilizing a variety of base metals and advanced joint designs.

WEL 2051 - Design, Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002, WEL 1024, WEL 2050.
Formerly WEL 251 Develops advanced welding and associated skills in the use of drawings and blueprints in planning. Includes designing and layout projects.

Semester Four, Spring (14 credits)

- Any general education course **Credit(s): 2 minimum**

WEL 2025 - Advanced Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024, WEL 1025.
Formerly WEL 225 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 2033 - 2G-Horizontal Pipe A.P.I.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1004 or equivalent.
Formerly 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 Petroleum Institute Pipe Code using the SMAW process with E-XX10 type electrodes.

WEL 2063 - Applied Metal Properties

Credit(s): 4
Lecture Hour(s): 3

Vocational Lab Hour(s): 1.50
Formerly WEL 263 Introduces the study of metal properties, hardness testing, heat treatment, cold working microscopic examination and application of common commercial alloys in industry.

WEL 1005 - Introduction to Nondestructive Testing Methods & Visual Inspection Workshop

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Introduces the six major Non-Destructive Testing (NDT) disciplines, including,: Ultrasonic (UT), Magnetic Particle (MT), Eddy Current (ECT), Liquid Penetrant (PT), Radiography (RT), and Visual (VT). This course focuses on the visual identification of welding discontinuities, and emphasizes distinguishing visual discontinuities from defects based on specific welding codes using a variety of materials, visual inspection techniques, and equipment.

Behavioral Health: Addiction Recovery AAS

Program Description

The AAS degree in Behavioral Health with an emphasis on Addiction Recovery focuses on careers as certified addiction technicians, peer recovery specialists, prevention specialists, or in residential treatment centers. Graduates are prepared to complete the remaining requirements to become Certified Addiction Technicians through the Colorado Department of Regulatory Agencies (DORA). During the program, students of the Addiction Recovery Emphasis will study behavioral health concepts related to addiction and substance abuse, counseling, group dynamics, and human development.

If you wish to pursue a bachelor's degree after earning your AAS, you can take advantage of a smooth transfer to UCCS for a BA in Human Services or CSU Pueblo for a BAS in Health Science and Administration.

Total credits: 67

First Fall: 17

BEH 1001 - Mental Health Crisis and Intervention: Preparedness and Emp

Credit(s): 3
Lecture Hour(s): 3
Focuses on the skills necessary to recognize and assess warning signs of mental health distress and crisis intervention through evidence-based practices. This course also emphasizes trauma-informed care, non-violent crisis intervention, and interventions for diverse populations. This course will prioritize preparation for becoming a compassionate and skilled crisis intervention professional.

BEH 2030 - Applied Therapeutic Communication Skills

Credit(s): 3
Lecture Hour(s): 3
Provides effective communication techniques in behavioral health settings to forge meaningful connections with clients and provide support and guidance on their journey towards improved mental health and well-being. The course focuses

on establishing rapport, demonstrating empathy, and facilitation of meaningful dialogues with clients across diverse populations, settings, and presenting concerns through experiential learning and self-reflection.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

HPR 1000 - Introduction to Health

Credit(s): 3
Lecture Hour(s): 3
Formerly HPR 100 Provides foundational knowledge and skills necessary for careers in health care. This course covers basic health skills such as vital signs, hand washing, and Cardiopulmonary Resuscitation (CPR).

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

First Spring: 16

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative,

and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PTE 1017 - Theoretical Concepts of Psychiatric Care II

Credit(s): 2
Lecture Hour(s): 2
Formerly PTE 117 Explores psychiatric problems common to four (4) special populations: children/adolescents, developmentally disabled individuals, aging persons, and forensic clients. The student learns to recognize and intervene with problems common to these four groups.

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 106 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.

SWK 1100 - Social Welfare and Community Agencies with Service Learning

Credit(s): 3
Lecture Hour(s): 3
Provides a community oriented, service-related, and civic engagement experience from a social work perspective. The course requires at least 30 hours of service to a pre-approved community organization to enhance academic and civic learning, and covers social problems addressed by the organization. The course integrates social justice, socioeconomic, and political issues to personal and professional development within the field of social work.

Second Fall: 17

PTE 1020 - Application of Behavioral Health Care & Wellness

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Formerly PTE 120 Explores basic etiology, symptoms, and interventions for common behavioral and mental health disorders. Provides the opportunity for students to experience the mileu of a behavioral health care setting while providing basic care to clients experiencing common behavioral and mental health issues.

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

BEH 2001 - Mental Health Crisis & Intervention: Advoc, Interv, & Resil

Credit(s): 3
Lecture Hour(s): 3
Covers a wide range of skills in advocacy, intervention, and resilience within the context of mental health crises. The course emphasizes ethical decision-making, trauma-informed approaches, cultural competence, and innovative intervention strategies through a blend of theory, practical examples, and interactive learning.

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

Second Spring: 17

CSL 2068 - Addictions Counseling Skills

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 268 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 2046 - Ethical Practice in Addiction Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 245 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 course covers the Colorado Mental Health Practice Act and introduce the regulatory system and the role of Departmental of Regulatory Agencies (DORA) and Division of Behavioral Health (DBH) in the development and credentialing of the addiction counselor. Emphasis on developing ethical decision-making skills, knowledge of confidentiality and the prohibited activities in the Mental Health Practice Act become familiar with the National Association for Alcoholism and Drug Abuse Counselors (NAADAC) Code of Ethics and acquire the tools for ethical and legal practice.

CSL 2051 - Pharmacology I for Addiction Counselors

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 251 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 2052 - Advanced Pharmacology

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2051
Formerly CSL 252 Focuses on the pharmacology of alcohol and drugs such as stimulants, nicotine, cannabis, hallucinogens, designer drugs, over the counter medications, and medications for psychiatric illnesses. When combined with CSL 2051, this course meets the pharmacology training requirement for the Counselor II level of the Colorado Alcohol and Drug Abuse Program.

CSL 2061 - Case Conceptualization and Documentation

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 260 Provides 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, American Society of Addiction Medicine (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 2048 - Advanced Case Conceptualization

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2061
Formerly CSL 248 Covers the differences between screening and assessment and use of assessment instruments. In this

course components of the clinical assessment include a biopsychosocial interview, assessing risk for self-harm, identifying cultural needs and supports, problem domains, determining stage of readiness for change and strengths of the client. Stages of treatment and systems of care will be covered along with facets of treatment planning.

CSL 2069 - Principles of Addiction

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 269 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.

CSL 2065 - Culturally Informed Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 265 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 2054 - Trauma Informed Care

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 254 Covers the concept of trauma?informed care, an approach being adopted within human services based upon an increased awareness of the ways trauma impacts functioning. Course will define what trauma informed care is and ways a traditional treatment setting can be modified to increase the sense of safety experienced by clients. Participants will learn how to incorporate trauma?informed practices into treatment with diverse populations, such as military veterans, women, and people with co?occurring disorders.

CSL 2050 - Motivational Interviewing I

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 250 Provides the opportunity for students to learn both the model of Motivational Interviewing as well as the underlying Stages of Development model. Discussion of the populations of clients where these models have proven most effective will be discussed. Student opportunity for skills practice during class that includes skill sets specific to each stage of client readiness will be used. Presentation of assessment instruments to evaluate client readiness for change.

CSL 2058 - Group Counseling Skills

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068

Formerly CSL 258 Provides students with the skills that allow one therapist to facilitate a group process that help a number of clients simultaneously, and provides positive peer support and pressure for recovery. This class will help the student understand the use of group therapy and be able to demonstrate the skills necessary to facilitate a therapy group. The class will focus on group process and discuss diversity within groups, as well as challenges for group leaders.

CSL 2053 - Cognitive Behavior Therapy

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 253 Opportunity for students to learn the model of Cognitive Behavior Therapy as it applies to addiction. Discussion of the populations of clients where this model has proven most effective. Opportunity for skills practice during class that includes clincial feeback. Minimum of 14 contact hours.

CSL 2055 - Infectious Diseases for Addiction Counselors

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 255 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 2059 - Advanced Professional and Ethical Practice

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2046
Formerly CSL 259 Addresses organizational ethics and practices, individual provider ethics and practices, and guidelines for setting up a private practice. Topics will include Office of Behavioral Health (OBH) licensing rules; OBH behavioral health rules and regulations; practice standards and guidelines; Department of Regulatory Agencies (DORA) and the Mental Health Practice Act; the purpose of and the need for written policies and procedures; professional competencies, boundaries and ethical relationships; reporting violations; employee drug testing; liability insurance; clinical versus administrative supervision; the ethical delivery of culturally-responsive care and trauma-informed care; and the need for professional self-care plan. This course will build on Ethical Practice in Addiction Treatment course.

CSL 2056 - Co-occurring Disorders

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 256 Presents the basics of working with clients with co-occurring mental health and substance abuse disorders. This class will address clinical assessment, treatment philosophy, strategies, and guidelines to provide integrated treatment with co?occurring disorders. It will include an introduction to the diagnostic criteria for the mental disorders most often seen with substance use disorders. The essential values, attitudes, and competencies of the counselor working with this population are discussed.

Associate of Science

Click here for the Associate of Science Degree Requirements

Biology, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science (AS) Degree with Designation in Biology prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Science (BS) degree in Biology. Students who opt for the Bachelor of Science in Biology can choose to work in numerous occupational fields of science or medicine. Once a BS is completed, many students will pursue a higher or graduate degree in Biology.

Program Description

This program introduces the student to the discipline of Biology includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Biology. Upon transfer, students from Pueblo Community College who have earned the Associate of Science (AS) Degree with Designation in Biology will be ready to complete the last half of a BS in Biology at a four-year institution.

Program Requirements

Refer to the course descriptions listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (36 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing Course (GT--CO3) *

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Science Courses (20 Credits)

Note: If these credits are not required for the major at a receiving 4-year institution, they will be applied to the Bachelor's degree as elective credit toward graduation. Please check with the receiving institution to determine in which way these courses will be applied

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Electives (4 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.S. Biology, Cellular and Molecular Biology, Organismal Biology, and Wildlife Biology emphasis)
- Colorado Mesa University (B.S. Biological Sciences, Biology concentration)
- Colorado State University-Ft. Collins (B.S. Biological Sciences)
- Colorado State University-Pueblo (B.S. Biology)
- Fort Lewis College (B.S. Biology, General Biology option)
- Metropolitan State University of Denver (B.S. Biology)
- University of Colorado, Boulder (B.A. Ecology and Evolutionary Biology)
- University of Colorado, Colorado Springs (B.S. Biology)
- University of Colorado, Denver (B.S. Biology)
- University of Northern Colorado (B.S. Biological Sciences, Cell and Molecular Biology, Ecology and Evolutionary Biology, Pre-Health and Biomedical Sciences emphasis)
- Western State Colorado University (B.A. Biology, Cell Biology/Pre-medicine, Environmental Biology and Ecology, General Biology, Pre-allied Health emphasis)

Chemistry, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science (AS) Degree with Designation in Chemistry prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Science (BS) degree in Chemistry. Students who opt for the Bachelor of Science in Chemistry can choose to work in numerous occupational fields of science or medicine. Once a BS is completed, many students will pursue a higher or graduate degree in Chemistry.

Program Description

This program introduces the student to the discipline of Chemistry includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of

Chemistry. Upon transfer, students from Pueblo Community College who have earned the Associate of Science (AS) Degree with Designation in Chemistry will be ready to complete the last half of a BS in Chemistry at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (30 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing Course (GT-CO3) *

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (3 Credits)

(See note below)

- Select one GT Pathways Arts and Humanities course from any category (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (3 Credits)

(See note below)

- Select one GT Pathways Social and Behavioral course from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Science and Mathematics Courses (29 Credits)

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 2111 - Organic Chemistry I with Lab

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1112
Formerly CHE 211 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, and reaction mechanisms such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry.

CHE 2112 - Organic Chemistry II with Lab

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 2111
Formerly CHE 212 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.

Elective (1 Credit)

Determined by transferring institution

Transfer Degrees

Note: This statewide transfer articulation agreement in Chemistry does not fulfill requirements for the GT Pathways general education curriculum or the Associate of Science degree prior to transfer; however, this agreement does guarantee a student, if admitted, junior standing and completion of the bachelor's degree within an additional 60 semester hours at the receiving institution.

Completion of the receiving institution's lower division general education requirements is fulfilled only under the condition that one GT Pathways-approved course in arts and humanities (AH1, AH2, AH3, or AH4) and one GT Pathways-approved course in social and behavioral sciences (SS1, SS2, or SS3) are successfully completed at the receiving institution within the first 30 hours or 12 calendar months.

Students transferring to a four-year college/university under this Chemistry agreement are encouraged to 'reverse' transfer the one GT Pathways course in arts and humanities and the one GT Pathways course in social and behavioral sciences back to PCC in order to complete the GT Pathways general education program and to earn their Associate of Science degree with a Chemistry designation.

Lecture and laboratory portions of organic chemistry, CHE 2111 and CHE 2112, must not be taken in an online delivery format.

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.S. Chemistry)
- Colorado Mesa University (B.S. Chemistry)
- Colorado State University-Ft. Collins (B.S. Chemistry)
- Colorado State University-Pueblo (B.S. Chemistry)
- Fort Lewis College (B.S. Chemistry, Chemistry option)
- Metropolitan State University of Denver (B.A./B.S. Chemistry)
- University of Colorado, Boulder (B.A. Chemistry)
- University of Colorado, Colorado Springs (B.A./B.S. Chemistry)
- University of Colorado, Denver (B.S. Chemistry)
- University of Northern Colorado (B.S. Chemistry, Biochemistry, Chemistry, Forensic Science, Industrial Chemistry, Pre-Health emphasis)
- Western State Colorado University (B.A. Chemistry, General Chemistry, Biochemistry emphasis)

Computer Science, DwD

See list of Department Chairs on the Personnel page.

Total Credits: 60

General Education Course Requirements (36 credits)

Written and Oral Communication (6 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 credits)

- Choose a CCCS GT-SC1 (5 credits)
- Choose a CCCS GT-SC1 (5 credits)

Arts and Humanities (6 credits)

- Choose a CCCS GT-AH1, AH2, AH3, or AH4 (3 credits)
- Choose a CCCS GT-AH1, AH2, AH3, or AH4 (3 credits)

Social Sciences (6 credits)

- Choose a CCCS GT-SS1, SS2, SS3 (3 credits)
- Choose a CCCS GT-SS1, SS2, SS3 (3 credits)

History (3 credits)

- Choose a CCCS GT-HI1 (3 credits)

Select 24 Elective Credits from the Below (24 credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 2030 - C Programming: Platform

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CSC 1019 and CSC 1060
Formerly CSC 230 Prepares students to be a better programmer using the C programming language. C is a mid-level language whose economy of expression and data manipulation features allows a programmer to deal with the computer at a low level. The goal is to learn skills that are usable in many languages and understand what is happening at the machine level. The student should already understand the control structures selection, iteration, and subroutines (functions/methods).

CSC 2040 - Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060 or CSC 2017
Formerly CSC 240 Introduces the Java Platform, Standard Edition (Java SE), to develop Graphical User Interface (GUI) applications. Language constructs will include loops, conditionals, methods, and arrays. The code will incorporate event and exception handling, File I/O, and Object-Oriented Programming (OOP) concepts.

CSC 2041 - Advanced Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 2040 or CSC 1060
Formerly CSC 241 Covers advanced programming topics including multi-threading, network/internet programming, database programming, and JavaBeans. This course focuses on writing Java Enterprise Edition (Java EE) complex programs.

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2540 - Linear Algebra

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 2420
Formerly MAT 255 Introduces linear algebra and emphasizes techniques of problem solving and introductory proofs.This course includes linear systems, matrices, determinants, vector spaces, linear transformations, eigenvalues, and eigenvectors.

Choose one CCCS GT-SC1 (4 credits)

Geology, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science (AS) Degree with Designation in Geology prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Science (BS) degree in Geology or Earth Sciences. Students who opt for the Bachelor of Science in Geology can choose to work in various occupational fields of science or engineering. Once a BS is completed, many students will pursue a higher or graduate degree in Geology.

Program Description

This program introduces the student to the discipline of Geology includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Geology. Upon transfer, students from Pueblo Community College who have earned the Associate of Science (AS) Degree with Designation in Geology will be ready to complete the last half of a BS in Geology at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (36 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Course (GT-CO3) *

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2

Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Science and Mathematics Courses (23 Credits)

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): GEY 1111
Formerly GEY 112 Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration,

analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Elective (1 Credit)

Determined by transferring institution

Transfer Degrees

Note: In addition to meeting the requirements listed here, contact the department at the school to which you want to transfer for program-specific information.

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.A./B.S. Earth Sciences, Geology emphasis)
- Colorado Mesa University (B.S. Geosciences, Geology concentration)
- Colorado State University-Ft. Collins (B.S. Geology, Geology concentration)
- Fort Lewis College (B.S. Geology, Geology option)
- University of Colorado, Boulder (B.A. Geology)
- University of Northern Colorado (B.S. Earth Sciences, Geology emphasis)
- Western State Colorado University (B.A. Geology, Geology emphasis)

Mathematics, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science Degree with Designation in Mathematics prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a bachelor's degree in mathematics. Bachelor degree curriculums allow students to prepare for graduate school, teaching careers, or employment in areas that require mathematics, such as actuarial science, computer science, engineering or statistics.

Program Description

The Associate of Science Degree with Designation in Mathematics is designed for students who want to transfer to a four-year college or university to pursue a bachelor's degree in mathematics. Completion of the AS degree completes the first two years of a mathematics bachelor's degree, and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in mathematics.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AS Degree with Designation in Mathematics, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Requirements (39 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (9 Credits)

- Select three GT Pathway courses from any category: (GT-AH1, GT-AH2, GT-AH3, **or** GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathway courses from any category (GT-SS1, GT-SS2, **or** GT-SS3) *

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Courses (16-17 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

or

MAT 2431 - Calculus III with Engineering Applications: GT-MA1

Credit(s): 5
Lecture Hour(s): 5

Prerequisite(s): MAT 2420
Formerly MAT 204 Focuses on the traditional subject matter of multivariable Calculus with an additional emphasis on word problems and problem solving. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals, Stokes', Divergence Theorems and Green's Theorems, and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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.

Electives (4-5 Credits)

Determined by transferring institution

Transfer Degrees

** CSU-Fort Collins requires a different computer science course than the community college course. Students should seek advising at CSU-Ft. Collins for information on the appropriate computer science course to take.

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. Mathematics)
- Colorado Mesa University (B.S. Mathematics; Mathematics, Secondary Education or Statistics concentrations)
- Colorado State University-Ft. Collins (B.S. Mathematics)
- Colorado State University-Pueblo (B.A. Mathematics; B.S. Mathematics)
- Fort Lewis College (B.A. Mathematics; Mathematics option)
- Metropolitan State University of Denver (B.A. Mathematics)
- University of Colorado, Boulder (B.A. Mathematics)
- University of Colorado, Colorado Springs (B.A. Mathematics; B.S. Mathematics)
- University of Colorado, Denver (B.S. Mathematics)
- University of Northern Colorado (B.S. Mathematics; Applied Mathematical Sciences or Liberal Arts emphasis)
- Western State Colorado University (B.A. Mathematics)

Associates of Engineering Science

See list of Department Chairs on the Personnel page.

Program Description

The General Engineering program at Pueblo Community College is designed for students interested in studying for the engineering profession through the community college pathway. This pathway prepares students for the completion of a 2-year Associate of Engineering Science (AES) degree which meets the requirements of the statewide engineering articulation agreement with Colorado School of Mines general four-year engineering Bachelor's Degree programs. Completion of the Associate's Degree completes the first two years of an engineering Bachelor's Degree and guarantees transfer at the junior level.

Program Requirements

Refer to the general requirements for the Associate of Science degree listed above. Some pre-engineering courses have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for specific course prerequisites.

General Engineering (Colorado School of Mines)

Total Credits: 64

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

English/Communication (6)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (24)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores

Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2561 - Differential Equations with Engineering Applications: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2430 or MAT 2431
Formerly MAT 261 Introduces ordinary differential equations. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms with an additional emphasis on engineering applications and problem solving. Appropriate technology related to the

mathematical field may be used as a component of the course. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (14)

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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.

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Social and Behavioral Sciences (3)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate

Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

History (3)

HIS 2015 - 20th Century World History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 247 Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states since the late nineteenth century. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1category. GT-HI1

Arts and Humanities (6)

- List: https://www.mines.edu/registrar/cccs-hass-courses/ **Credit(s): 3**

PHI 2018 - Environmental Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 218 Analyzes theories of the value of the natural world. Topics may 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; and the connection between moral and political values and economic policies. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Required Electives (8)

EGG 1040 - Engineering Projects

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): MAT 1340 or higher
Formerly EGG 140 Teaches how to engage community stakeholders and use traditional research practices to identify, define, articulate, and design technical solutions to open-ended problems. The course utilizes teamwork on a semester-long iterative design project.

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include

wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Psychology, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science Degree with Designation in Psychology prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Science degree (BS) in psychology. Much of the coursework for BA and BS degrees in psychology tends to overlap (for example, social science requirements and core courses), but BS degree graduates have a higher skill concentration in math, natural sciences and research methods. Students who opt for the Bachelor of Science in Psychology can find work with medical doctors, forensic psychologists, neuropsychologists and biologists. After a BS is completed, students may pursue a higher degree in psychology, if interested.

Program Description

This program introduces the student to the field of psychology and includes the coursework to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of psychology. Upon transfer, students from Pueblo Community College who have earned the Associate of Science (AS) Degree with Designation in Psychology will be ready to complete the last half of a BS in Psychology at a four-year institution.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AS degree with a designation in psychology, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (38 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

- ENG 1021 - English Composition I: GT-CO1 **Credit(s): 3**
  or
- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (4 Credits)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (9 Credits)

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

or

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

- (Plus six (6) additional credits from at least two different categories of GT Pathways Arts & Humanities courses: (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathway courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Courses (9 Credits)

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological

psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Electives (13 Credits)

Determined by transferring institution

Transfer Degrees

Note: Students planning to transfer to University of Colorado Denver should complete both two-semester sequences of BIO 1111 & BIO 1112 and CHE 1111 & CHE 1112 at the community college; in addition, electives are restricted to non-Psychology courses.

This degree transfers to the following Colorado public four-year institutions of higher education:

- Colorado State University-Fort Collins (B.S. Psychology: General Psychology concentration)
- Colorado State University-Pueblo (B.S. Psychology)
- University of Colorado, Denver (B.S. Psychology)

Pre-Engineering Transfer to CSU-P

Total Credits: 60

Bachelor of Science - Industrial Engineering

Written Communication (6)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (3)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Arts & Humanities (9)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

- Two GT Pathways Arts & Humanities courses from two different areas (GT-AH1, GT-AH2, GT-AH3, or GT-AH4) **Credit(s): 6**

Social & Behavioral Sciences (6)

- Two GT Pathways Social & Behavioral Science courses from two different areas (GT-SS1, GT-SS2, or GT-SS3) **Credit(s): 6**

History (3)

- One GT Pathways History course (GT-HI1) **Credit(s): 3**

Natural & Physical Sciences (10)

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Required Courses (11)

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

EGG 1040 - Engineering Projects

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): MAT 1340 or higher
Formerly EGG 140 Teaches how to engage community stakeholders and use traditional research practices to identify, define, articulate, and design technical solutions to open-ended problems. The course utilizes teamwork on a semester-long iterative design project.

Elective and Recommended Courses (12)

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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.

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2560 - Differential Equations: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 2420
Formerly MAT 265 Explores techniques of problem solving and applications. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

- Choose 1 class from the AS approved list **Credit(s): 1**

Bachelor of Science - Mechatronics

Written Communication (6)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (3)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Arts & Humanities (9)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

- Two GT Pathways Arts & Humanities courses from two different areas (GT-AH1, GT-AH2, GT-AH3, or GT-AH4) **Credit(s): 6**

Social & Behavioral Sciences (6)

- Two GT Pathways Social & Behavioral Science courses from two different areas (GT-SS1, GT-SS2, or GT-SS3) **Credit(s): 6**

History (3)

- One GT Pathways History course (GT-HI1) **Credit(s): 3**

Natural & Physical Sciences (10)

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Required Courses (11)

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

EGG 1040 - Engineering Projects

Credit(s): 3
Lecture Hour(s): 2

Vocational Lab Hour(s): 1.50
Prerequisite(s): MAT 1340 or higher
Formerly EGG 140 Teaches how to engage community stakeholders and use traditional research practices to identify, define, articulate, and design technical solutions to open-ended problems. The course utilizes teamwork on a semester-long iterative design project.

Elective and Recommended Courses (13)

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Associate of General Studies

Click here for the Associate of General Studies Degree Requirements

Computer Information Systems, AGS (with Transfer Articulation Agreement)

See list of Department Chairs on the Personnel page.

Career Opportunities

The AGS degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program teaches you basic networking, programming and database technologies, as well as technical aspects of the Internet and data communications. The Associate of General Studies Degree with an emphasis in Computer Information Systems prepares you to transfer to a university as a junior to pursue a bachelor's degree in Computer Science or Computer Information Systems. Please check with the university of your choice to assure transferability of all courses.

Total Credits: 60

General Education Course Requirements (30 Credits)

Written and Oral Communication (9 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Mathematics (4 Credits)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Physical & Life Sciences (8 Credits)

Courses with Required Lab:

Choose two courses:

ANT 1001 - Cultural Anthropology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 101 Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

AST 1110 - Astronomy I With Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 101 Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 102 Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT- SC1 category.

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the

impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and CHE 1011
Formerly CHE 102 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, Intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1005 - Chemistry in Context with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 105 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021

Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ENV 1111 - Environmental Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly ENV 101 Introduces the basic concepts of ecology and the relationship between environmental problems and biological systems. This course includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. A holistic approach is used when analyzing how the foundations of natural sciences interconnect with the environment. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1011 - Physical Geography: Landforms with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 111 Examines 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. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 112 Introduces the principles of meteorology, climatology, ecology, and regional climate classification. The course investigates the geographic factors which influence climate and ecosystems such as topography, elevation, winds, ocean currents, and latitude. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): GEY 1111
Formerly GEY 112 Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1135 - Environmental Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 135 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MET 1050 - General Meteorology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly MET 150 Provides an introduction to general meteorology and atmospheric sciences. Includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Examines the development of weather system, such as storm systems, hurricanes, weather fronts, and cloud development. Stresses the concepts of climatology. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1107 - Energy Science & Technology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): MAT 0300 with a grade of S/C or better.
Formerly PHY 107 Explores the science of energy and energy technologies with a focus on renewable energy resources and clean technologies. The course provides a background in the physics of energy, energy transfer, and the current state of energy technology. Evaluation of the future utilization of renewable technologies is included. Topics may include conservation of energy; mechanical, electrical, heat, and fluid power systems; energy transfer and loss; energy audits; and testing solar collectors and wind generators. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4

Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Social Sciences (6 Credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

Choose One Course from the Following (3 Credits)

Arts and Expression

ART 1110 - Art Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 110 Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1113 - Art History

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 207 Introduces the concepts necessary to understand modern visual art, with an emphasis on world art of the 20th century. This course surveys world art of the 20th century, including Modernism to Post-Modernism. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1020 - Music Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 120 Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western, and non-Western historical style periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1021 - Music History Medieval Thru Classical Period: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 121 Provides an historical survey of Western art music from the Middle Ages into the Classical period, including styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1022 - Music History Early Romantic Period to the Present: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 122 Provides an historical survey of Western art music connecting the classical period to the Romantic period and following to the present. This course includes the study of styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1025 - History of Jazz: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 125 Provides an overview of jazz history covering the basic materials of music and the forms, media, genres, and the historical and cultural framework of each style period. This course emphasizes the building of critical listening tools and the development of a jazz music vocabulary. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 1005 - Theatre Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 105 Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2011 - Development of Theatre Greek-Renaissance: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 211 Surveys the history and development of theatrical practices from Ancient Greece to the Renaissance as well as non-western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2012 - Development of Theatre Restoration to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 212 Surveys the history and development of theatrical practices from Restoration to the present as well as non-Western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2015 - Playwriting: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 215 Develops playwriting techniques emphasizing elements of dramatic structure, dialogue, styles, creative writing, and theatrical practices. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

Literature and Humanities

HUM 1003 - Introduction to Film Art: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 103 Introduces film terminology and narrative techniques to explore how film conveys meaning and to study the relationships among film form, content, and audience reception. This course emphasizes active viewing, discussion, and critical analysis of films from different cultures and eras. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT:AH2

HUM 1015 - World Mythology: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 115 Introduces an interdisciplinary approach to world mythology. The course illustrates and connects common themes in mythology to world religion, philosophy, art, literature, music, and contemporary culture using various interpretive methods. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1021 - Humanities: Early Civilization: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 121 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among diverse cultures, including European and non-European, from the prehistoric to the early medieval era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1022 - Humanities: Medieval - Modern: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 122 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the medieval to the early modern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1023 - Humanities: Modern World: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 123 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the European Enlightenment to the postmodern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021.

Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2001 - World Literature to 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 201 Examines significant writings in world literature from the ancients to the seventeenth century. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2002 - World Literature After 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 202 Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2005 - Race. Ethnicity, and Culture in U.S. Literature: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 205 Examines the cultural, historical, and social contexts impacting multiple ethnic American identities through critical reading and analysis. This course focuses on significant works by authors who identify as African American, Native American, Latino/a, Asian American, and other ethnicities. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2011 - American Literature to Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 211 Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2012 - American Literature After Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 212 Examines American literary works from 1865 to the present, distinguishing among literary themes, genres, and schools of thought that illustrate historical and social contexts across a multicultural spectrum. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2025 - Introduction to Shakespeare: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Placement at ENG 1021 level or consent of instructor.
Formerly LIT 225 Explores works by William Shakespeare, focusing on a careful reading of these works as well as an exploration of pertinent contextual and historical information. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2046 - Literature of Women: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 246 Examines the techniques and themes in literature of various genres by and about women by considering what it means for women to be in literature, as characters and also as authors. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

Ways of Thinking

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1014 - Comparative Religions: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 114 Introduces the major religions of the Eastern and Western world. Covers Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Utilizes methods of religious studies to understand the historical development of each religious tradition as well its worldview and teachings. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1015 - World Religions-West: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 115 Introduces students to religions of the Western World: Judaism, Christianity, and Islam. Utilizes the methods of religious studies 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 is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2014 - Philosophy of Religion: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 214 Focuses on the critical analysis and evaluation of the fundamental concepts, ideas, and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of ultimate reality, arguments concerning God`s existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience, and religious diversity. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2018 - Environmental Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 218 Analyzes theories of the value of the natural world. Topics may 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; and the connection between moral and political values and economic policies. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2020 - Philosophy of Death and Dying: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 220 Explores the major philosophical questions surrounding death and dying, the metaphysical arguments for and against the existence of the soul, life after bodily death, the major ethical theories and their relation to issues of physician-assisted suicide, care for the dying, the grieving process, death as expressed in aesthetics and contemporary society, as well as the existential contributions concerning meaning of life and the meaning of death. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Core Curriculum Requirements (27 Credits)

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3

Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

CSC 2067 - Object-Oriented Analysis and Design

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 267 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.

Electives (3 Credits)

(Choose from List)

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

or

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

or

BUS 2026 - Business Statistics

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 226 Focuses on statistical study, sampling, organizing and visualizing data, descriptive statistics, probability, binomial distributions, normal distributions, confidence intervals, linear regression, and correlation. Intended for business majors.

or

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3

Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

or

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Mass Communications, AGS (with Transfer Articulation Agreement)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of General Studies degree with an emphasis in Mass Communications prepares you for a career in journalism, radio/TV broadcasting, advertising, public relations or New Media Technology by providing a two-year foundation of courses designed to transfer to four-year colleges and universities.

Program Description

This program teaches you to think critically and develops your skills in news writing, television and radio production, advertising, videography and web design. Courses provide a solid foundation in these areas through a mixture of lecture and hands-on application. A fully equipped video control room and a mobile production truck provide you with multi-camera working classrooms. Several nonlinear editing suites offer you a diversity of experience in the changing field of communication. You will also gain experience in production and digital media through our media lab and the many volunteer opportunities we offer.

Transferability of courses depends upon the courses taken and the receiving institution. The PCC/CSU-Pueblo Transfer Agreement allows the AGS Media Communications graduate to transfer to the Colorado State University-Pueblo Mass Communications Department with a junior standing.

Please see the certificate option - Broadcasting & Production Technology Certificate.

Total Credits: 60

General Education Requirements (35 Credits)

Should be GTPathway courses

Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (3 Credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

or

MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 120 Highlights connections between mathematics and the society in which we live and is intended for liberal arts majors. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1320 - Finite Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 123 Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2431 - Calculus III with Engineering Applications: GT-MA1

Credit(s): 5
Lecture Hour(s): 5

Prerequisite(s): MAT 2420
Formerly MAT 204 Focuses on the traditional subject matter of multivariable Calculus with an additional emphasis on word problems and problem solving. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals, Stokes', Divergence Theorems and Green's Theorems, and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2520 - Discrete Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2410
Formerly MAT 215 Concentrates on formal logic, algorithms, induction proofs, equivalence relations and graphs. This course is designed for mathematics and computer science students. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2561 - Differential Equations with Engineering Applications: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2430 or MAT 2431
Formerly MAT 261 Introduces ordinary differential equations. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms with an additional emphasis on engineering applications and problem solving. Appropriate technology related to the mathematical field may be used as a component of the course. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2560 - Differential Equations: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 2420
Formerly MAT 265 Explores techniques of problem solving and applications. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Physical & Life Sciences (Courses with Required Labs) (8 Credits)

Select two courses from:

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English
Formerly ANT 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1110 - Astronomy I With Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 101 Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 102 Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT- SC1 category.

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and CHE 1011

Formerly CHE 102 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, Intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1005 - Chemistry in Context with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 105 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ENV 1111 - Environmental Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly ENV 101 Introduces the basic concepts of ecology and the relationship between environmental problems and biological systems. This course includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. A holistic approach is used when analyzing how the foundations of natural sciences interconnect with the environment. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1011 - Physical Geography: Landforms with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 111 Examines 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. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 112 Introduces the principles of meteorology, climatology, ecology, and regional climate classification. The course investigates the geographic factors which influence climate and ecosystems such as topography, elevation, winds, ocean currents, and latitude. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): GEY 1111
Formerly GEY 112 Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1135 - Environmental Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 135 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MET 1050 - General Meteorology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly MET 150 Provides an introduction to general meteorology and atmospheric sciences. Includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Examines the development of weather system, such as storm systems, hurricanes, weather fronts, and cloud development. Stresses the concepts of climatology. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1107 - Energy Science & Technology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): MAT 0300 with a grade of S/C or better.
Formerly PHY 107 Explores the science of energy and energy technologies with a focus on renewable energy resources and clean technologies. The course provides a background in the physics of energy, energy transfer, and the current state of energy technology. Evaluation of the future utilization of renewable technologies is included. Topics may include conservation of energy; mechanical, electrical, heat, and fluid power systems; energy transfer and loss; energy audits; and testing solar collectors and wind generators. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4

Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (9 Credits)

Select three courses from any one category:

Arts and Expression

ART 1110 - Art Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 110 Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1113 - Art History

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 207 Introduces the concepts necessary to understand modern visual art, with an emphasis on world art of the 20th century. This course surveys world art of the 20th century, including Modernism to Post-Modernism. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1020 - Music Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 120 Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western, and non-Western historical style periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1021 - Music History Medieval Thru Classical Period: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 121 Provides an historical survey of Western art music from the Middle Ages into the Classical period, including styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1022 - Music History Early Romantic Period to the Present: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 122 Provides an historical survey of Western art music connecting the classical period to the Romantic period and following to the present. This course includes the study of styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1025 - History of Jazz: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 125 Provides an overview of jazz history covering the basic materials of music and the forms, media, genres, and the historical and cultural framework of each style period. This course emphasizes the building of critical listening tools and the development of a jazz music vocabulary. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 1005 - Theatre Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 105 Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2011 - Development of Theatre Greek-Renaissance: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 211 Surveys the history and development of theatrical practices from Ancient Greece to the Renaissance as well as non-western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2012 - Development of Theatre Restoration to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 212 Surveys the history and development of theatrical practices from Restoration to the present as well as non-Western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2015 - Playwriting: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 215 Develops playwriting techniques emphasizing elements of dramatic structure, dialogue, styles, creative writing, and theatrical practices. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

Literature and Humanities

HUM 1003 - Introduction to Film Art: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 103 Introduces film terminology and narrative techniques to explore how film conveys meaning and to study the relationships among film form, content, and audience reception. This course emphasizes active viewing, discussion, and critical analysis of films from different cultures and eras. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT:AH2

HUM 1015 - World Mythology: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 115 Introduces an interdisciplinary approach to world mythology. The course illustrates and connects common themes in mythology to world religion, philosophy, art, literature, music, and contemporary culture using various interpretive methods. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1021 - Humanities: Early Civilization: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 121 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among diverse cultures, including European and non-European, from the prehistoric to the early medieval era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1022 - Humanities: Medieval - Modern: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 122 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the medieval to the early modern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1023 - Humanities: Modern World: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 123 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the European Enlightenment to the postmodern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021.
Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2001 - World Literature to 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 201 Examines significant writings in world literature from the ancients to the seventeenth century. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2002 - World Literature After 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 202 Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2005 - Race. Ethnicity, and Culture in U.S. Literature: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 205 Examines the cultural, historical, and social contexts impacting multiple ethnic American identities through critical reading and analysis. This course focuses on significant works by authors who identify as African American, Native American, Latino/a, Asian American, and other ethnicities. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2011 - American Literature to Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 211 Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2012 - American Literature After Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 212 Examines American literary works from 1865 to the present, distinguishing among literary themes,

genres, and schools of thought that illustrate historical and social contexts across a multicultural spectrum. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2025 - Introduction to Shakespeare: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Placement at ENG 1021 level or consent of instructor.
Formerly LIT 225 Explores works by William Shakespeare, focusing on a careful reading of these works as well as an exploration of pertinent contextual and historical information. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2046 - Literature of Women: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 246 Examines the techniques and themes in literature of various genres by and about women by considering what it means for women to be in literature, as characters and also as authors. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

Ways of Thinking

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1014 - Comparative Religions: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 114 Introduces the major religions of the Eastern and Western world. Covers Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Utilizes methods of religious studies to understand the historical development of each religious tradition as well its worldview and teachings. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1015 - World Religions-West: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 115 Introduces students to religions of the Western World: Judaism, Christianity, and Islam. Utilizes the methods of religious studies 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 is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2014 - Philosophy of Religion: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 214 Focuses on the critical analysis and evaluation of the fundamental concepts, ideas, and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of ultimate reality, arguments concerning God`s existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience, and religious diversity. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2018 - Environmental Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 218 Analyzes theories of the value of the natural world. Topics may 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; and the connection between moral and political values and economic policies. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2020 - Philosophy of Death and Dying: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 220 Explores the major philosophical questions surrounding death and dying, the metaphysical arguments for and against the existence of the soul, life after bodily death, the major ethical theories and their relation to issues of physician-assisted suicide, care for the dying, the grieving process, death as expressed in aesthetics and contemporary society, as well as the existential contributions concerning meaning of life and the meaning of death. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Foreign Languages

FRE 2011 - French Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FRE 1012
Formerly FRE 211 Continues the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

FRE 2012 - French Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FRE 2011
Formerly FRE 212 Continues the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category.

GER 2011 - German Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): GER 1012
Formerly GER 211 Continues the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the German language. This course is conducted predominantly in German. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

GER 2012 - German Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): GER 2011
Formerly GER 212 Continues the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the German language. This course is conducted predominantly in German. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

SPA 2011 - Spanish Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): SPA 1012
Formerly SPA 211 Continues Spanish Language II in the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

SPA 2012 - Spanish Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): SPA 2011

Formerly SPA 212 Continues Spanish Language III in the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

Social and Behavioral Science (9 Credits)

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Select Three Courses in at Least Two Categories

History

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 101 Explores trends within events, peoples, groups, ideas, and institutions in Western Civilization from antiquity to 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1320 - Western Civ: 1650-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 102 Explores trends within events, peoples, groups, ideas, and institutions in Western civilization since 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1110 - The World: Antiquity-1500: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 111 Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This course focuses on common cultural trends. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1120 - The World: 1500-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 112 Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through the perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2135 - Colorado History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 225 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, mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2015 - 20th Century World History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 247 Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states since the late nineteenth century. This course focuses on developing, practicing, and strengthening skills historians use

while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1category. GT-HI1

Economic or Political Systems

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2045 - Environmental Economics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 245 Introduces contemporary environmental issues and policies meant to reduce environmental degradation. It introduces the concept of market failure due to pollution. The course covers government pollution reduction policies for air, water, and natural environments. It also covers analytical tools that are used to analyze the effectiveness of these policies. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 2020 - Introduction to Political Science: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 105 Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments and processes, and international relations. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1025 - American State and Local Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 125 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 is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

Geography

GEO 1005 - World Regional Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 105 Examines the spatial distribution of environmental and societal phenomena in the world's regions. Environmental phenomena includes topography, climate, and natural resources. Societal phenomena includes patterns of population and settlement, religion, ethnicity, language, and economic development. This course also analyzes the characteristics that define world regions and distinguishes them from each other. This course examines the relationships between physical environments and human societies, and examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

GEO 1006 - Human Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 106 Introduces geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. This course examines the relationships between physical environments and human societies. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

Human Behavior, Culture, or Social Frameworks

ANT 1001 - Cultural Anthropology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 101 Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1003 - Introduction to Archaeology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 107 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, the works of selected archaeologists, and major archaeological theories. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 2300 - Intercultural Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 220 Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1010 - Intro to Criminal Justice: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 110 Introduces the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives, and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ETH 2000 - Introduction to Ethnic Studies: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly ETH 200 Introduces the issues of race and ethnicity through the exploration of four major groups in the United States. This course explores issues of race and identity, racism and discrimination, stereotyping, prejudice, segregation, colonialism, integration, and acculturation pertaining to Americans of African, Asian, Latino, and Indigenous descent\, as well as additional ethnic identities. This is a statewide Guaranteed Transfer course in the GT SS3 category. GT-SS3

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence,

psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2105 - Psychology of Gender: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 205 Examines gender comparisons in work, courtship, family life, and sexual behavior throughout the life span. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2107 - Human Sexuality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 217 Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2222 - Psychology of Death and Dying: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 227 Examines philosophies of life and death emphasizing dying, death, mourning, and the consideration of one's own death. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2331 - Positive Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 231 Focuses on human strengths and explores strengths-based research and concepts of life satisfaction, well-being, happiness, helpfulness, resiliency, post-traumatic growth, and improving emotional, psychological, and social functioning. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is approved as part of the Colorado statewide Guaranteed transfer curriculum: GT: SS3.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2441 - Child Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 238 Focuses on the growth and development of the individual, from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 2333 - Health Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 240 Focuses on an overview of the scientific study of attitudes, behaviors, and personality variables related to health, illness, and bodily systems. The course emphasizes the interaction of biological, psychological, and social factors that cause illness and influence its treatment and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2771 - Psychology of Personality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 265 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 is a statewide Guaranteed Transfer course in the GT-SS3 category GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and

interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 102 Examines the basic concepts, theories, and principles of sociology, including topics of family, religion, education, politics, the economy, health, demography, the environment and social movements through a local and global lens. Analyzes and interprets socio-historical as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 2005 - Sociology of Family Dynamics: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 205 Offers a critical exploration of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations locally and globally. Explores the stability and evolution of the family, along with current trends and a range of family forms. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2007 - Environmental Sociology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 207 Examines how humans' relationship with the environment is mediated by social stratification. Key topic areas include industrial and economic growth versus sustainability, natural resources development and management, cultural values, social movements, and comparative perspectives on people's relationship to the environment. GT-SS3

SOC 2015 - Contemporary Social Problems: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 215 Investigates current social issues that result in societal problems. Focuses on numerous areas including, but not limited to, the loss of civil liberties, concentration of media ownership, gender discrimination, hate crimes, poverty, hunger, environmental degradation, racism and prejudice, as well as social change. Addresses ways to ameliorate these social ills. GT-SS3

SOC 2016 - Sociology of Gender: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 216 Examines major trends and theoretical approaches within the field of sociology of gender including the impact of intersecting social markers such as race, class, sexuality and gender identities. Addresses gender

performance, stratification and inequalities in micro and macro settings in the U.S. Focuses on social movements relating to identities and institutional inequalities. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

SOC 2037 - Sociology of Death and Dying: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 237 Explores the socially constructed nature of how individuals and societies interact with death and dying. Examines how individuals experience death and dying based on their social location. Analyzes diversity in grief practices related to death. GT-SS3

WST 2000 - Introduction to Women's Studies: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly WST 200 Explores the interdisciplinary field of women's studies. This course is an examination of the following topics: the historical basis of gender inequality; the history of social movements for gender equality and women's studies; women's achievements throughout history in various professional and academic fields; women's social, economic, religious, health and political status in the U.S. and around the globe; gender relations; intersectionality; cultural, media and artistic representations of women. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer Courses, GT-SS3.

Core Curriculum Requirements (25 Credits)

JOU 2006 - Intermediate Newswriting and Editing

Credit(s): 3
Vocational Lab Hour(s): 4.50

Prerequisite(s): JOU 1005, ENG 1021, or Department Chair Approval
Formerly JOU 206 Presents how to gather information as an investigative reporter through research of local, state and federal government publications, how to cover police beat and city hall, how our courts and regulatory agencies function, and how to cover other challenges as the environment, religion, science, medical, public safety and business.

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 2089 - Capstone

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 289 A demonstrated culmination of learning within a given program of study.

RTV 1000 - Introduction to Electronic Media

Credit(s): 3
Lecture Hour(s): 3
Formerly RTV 100 Focuses on the study of the market demands involving national, local and international uses of electronic media.

Choose 15 credits below

ART 1401 - Digital Photography I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 139 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.

MAR 2020 - Principles of Advertising

Credit(s): 3
Lecture Hour(s): 3
Formerly MAR 220 Examines the principles and practices of advertising and its relationship to business in the promotion of a business or organization. Areas of major emphasis include advertising principles, strategies, media, copy, and ethical considerations.

MGD 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

RTV 1002 - Beginning Television

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly RTV 102 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, preproduction, and post production.

Bachelor of Applied Science

Click here for the Bachelor Applied Science Degree Requirements

Advanced Paramedic Practitioner BAS

Program Description

See list of Department Chairs on the Personnel page.

PCC's Advanced Paramedic Practitioner Bachelor of Applied Science is designed for certified paramedics who have completed an Associate Degree in Emergency Medical Services or Paramedicine from an accredited college and wish to continue their education and obtain a Bachelor of Applied Science degree.

This program provides a student centered on-line learning environment meant to enhance career opportunities. Students will engage in self-directed learning activities and gain specialized knowledge in critical care, community and behavioral paramedicine.

Career Information

The Advanced Paramedic Practitioner degree opportunities may include working as a critical care paramedic, a community paramedic and in behavioral health in a variety of settings including mental health facilities, drug rehab, hospitals, clinics and in community paramedic programs.

The Advanced Paramedic Practitioner BAS program admission requirements and application are posted on Pueblo Community College EMS BAS webpage.

Total Program Credits -- 120

Students will receive 65 credits from AAS degree and earn 55 BAS credits. All program students must have a minimum of 30 PCC institutional credits.

Students may apply to start the program any semester.

Total Credits: 120

First (16 credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category.
GT-MA1

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions.
GT-SS3

HPR 3001 - Communications in Health Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 301 Develops professional written and oral communication plans to ensure effective patient-centered outcomes between health care professionals, patients and caregivers.

HPR 4011 - Leadership and Management in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 411 Provides a general overview of the concepts and theories relative to leadership and management in health care settings. This course covers concepts in decision-making models, ethical reasoning skills, effective communication, interpersonal and inter-professional relationships, management of human and fiscal resources, risk management, and quality improvement.

OR

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

Second (12 credits)

HPR 4003 - Critical Review of Healthcare Research

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program

Formerly HPR 403 Covers the identification, evaluation, and analysis of scientific published literature necessary to identify healthcare best practices, the formulation of research for clinical questions for effective participation in healthcare discussions and evidence-based decision-making.

EMS 3012 - Trauma Informed Care and Assessment

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 3011
Formerly EMS 312 Provides an overview of trauma-informed approaches, covering the types of trauma experienced, the impact of trauma on individuals, and principles of trauma-informed care.

EMS 3011 - Motivational Interviewing for EMS

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s):
Admission to the Advanced Paramedic Practitioner BAS program

SOC 2031

Formerly EMS 311 Introduces the Motivational Interviewing (MI) concept as a client-centered and conversational method of communication designed to assist helping professionals to address clients' ambivalence to change.

EMS 3010 - Clinical Assessment and De-escalation Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 3011, EMS 3012
Formerly EMS 310 Introduces several assessment tools and techniques for assessing a client in a behavioral setting. The course will also introduce de-escalation techniques aimed at calmly communicating with an agitated client in order to understand, manage, and resolve their concerns.

Third (14 credits)

HPR 3010 - Quality Improvement in Health Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 310 Introduces approaches to assessing risk and improving health care quality through the practice of Continuous Quality Improvement (CQI). Course explores the conceptual framework for quality improvement, a focus on quality improvement as a strategy to manage cost, boost productivity, and enhance quality outcomes in various health care settings. The course will focus on both conceptual understanding and experiential learning.

EMS 4025 - Fundamentals of Advanced Paramedic Practice

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): Admission to the Advanced Paramedic Practitioner BAS program
Formerly EMS 425 Presents advanced techniques for patient assessment and management. The course covers analysis of lab values associated with electrolytes, pharmacokinetics, and pulmonary gasses as they pertain to the pathophysiology of disease and patient management.

EMS 4033 - Advanced Paramedic Medical Care

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): EMS 4025
Formerly EMS 433 Provides advanced knowledge on assessing and managing patients with acute medical conditions and chronic medical conditions that have progressed in severity. This course focuses on in-depth pathophysiology of disease, advanced assessment, pharmacologic, and management required for patient care.

EMS 4035 - Advanced Paramedic Trauma Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 4025 and EMS 4033
Formerly EMS 435 Provides students with the advanced knowledge required to assess and manage patients with acute medical conditions and chronic medical conditions that have progressed in severity. In-depth pathophysiology of disease will be presented in conjunction with the advanced assessment, pharmacologic and management knowledge required to care for patients.

Fourth (13 credits)

EMS 3030 - Community Advocacy and Outreach

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to the Advanced Paramedic Practitioner BAS program
Formerly EMS 330 Introduces the role and function of the Community Paramedic (CP). The course provides insight into Community Paramedic's specific role and function as a member of a health care team and part of a community. The course identifies the components of the role, defines the role, and explains "scope of service" for the position of CP. The role of the CP as an advocate for clients in the community is discussed.

EMS 3031 - Community Assessment

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 3030
Formerly EMS 331 Introduces students to the role of the Community Paramedic (CP) as a member of the health care team in community assessment. The course presents concepts related to mapping community health care services, describing the demographics of the community, and assessing their impact on the health of the potential patients. The course will provide an understanding of community health services in order to understand the health care needs in the community.

EMS 4030 - Care and Prevention Development Strategies

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 3030 and EMS 3031
Formerly EMS 430 Introduces the responsibilities of the Community Paramedic (CP) for gathering appropriate patient/client information and maintaining accurate records, including documentation of encounters between the CP and the patient/client. The course presents information about the CP's role in assessing health care needs and appraising health care conditions.

EMS 4089 - Capstone

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): Admission to the Advanced Paramedic Practitioner BAS program
Formerly EMS 489 Provides students opportunity in a clinical setting for gathering and reviewing patient history, developing a care plan, providing appropriate treatment or counseling to the patient, and determining appropriate patient disposition.

[1] Courses taught in the first 8 weeks of the semester

[2] Courses taught in the second 8 weeks of the semester

Computed Tomography, BAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The BAS in Radiologic Technology program prepares students for careers in Computed Tomography (CT) or Magnetic Resonance Imaging (MRI), Leadership and Teaching in Medical Imaging.

Program Description

The BAS in Radiologic Technology program teaches students to perform Computed Tomography (CT) exams or Magnetic Resonance Imaging (MRI) exams as well as how to lead or teach others in the Medical Imaging Department. It provides students with an additional imaging modality and prepares them to take on leadership roles in the imaging department in health care facilities.

Program Requirements

Entrance Requirements:

Applicants must hold an associate's degree and be a registered radiologic technologist with the American Registry of Radiologic Technologists (ARRT).

Graduation Requirements:

Must complete 120 credits including didactic and clinical components of the program.

Total Credits: 120

Curriculum Requirements (43 Credits)

First Year-Fall Semester

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010

Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

First Year-Spring Semester

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

RTE 3011 - Sectional Anatomy for Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 311 Identifies anatomy in various imaging planes of advanced modalities. Compares normal anatomy with gross pathology on advanced cross-sectional images. Evaluation of anatomy and pathology will include head, spine, thorax, abdomen/pelvis and extremities.

RTE 3012 - IV Certification for Contrast Medium

Credit(s): 1
Lecture Hour(s): 0.50

Clinic Hour(s): 1

Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 312 Prepares the student to perform IV contrast administration including knowledge of arterial and venous anatomy, appropriate puncture sites, necessary equipment and supplies, understanding of different contrast media, injectors and administration safety.

RTE 3041 - Theory and Application of CT Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 341 Applies the fundamental and advanced principles of Computed Tomography (CT) in order to perform clinical CT examinations of the human body with special consideration to image production, quality control, terminology, basic procedural steps and MRI equipment and safety.

RTE 3051 - CT Protocols and Procedures

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 351 Covers the skill and knowledge necessary to perform supplemental procedures for imaging various anatomical structures including the head, spine, chest, abdomen, pelvis and extremities utilizing Computed Tomography. It provides instruction on gross pathological conditions demonstrated on CT images.

Summer Semester

RTE 3082 - Internship: CT I

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 382 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

RTE 4051 - Advanced CT Protocols and Procedures

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 3051.
Formerly RTE 451 Provides the skill and knowledge necessary to perform advanced specialty procedures for imaging various anatomical structures utilizing Computed Tomography. It distinguishes vascular anatomy and incorporates contrast media injections and contraindication into complex imaging studies.

Second Year-Fall Semester

MAN 2025 - Managerial Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 225 Examines the concepts and techniques used to analyze financial accounting information for managerial planning, decision-making, and control. Additionally, the course discusses decision-making relating to the areas of budgets, forecasts, cost volume production, Return on Investment (ROI) and financial statements.

RTE 4061 - Leadership in Medical Imaging

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): MRI or CT Program Admission.
Formerly RTE 461 Examines concepts and skills needed for leadership roles in Medical Imaging. It prepares the student with communication, time management, supervision, task delegation, conflict management and performance assessment skills.

or

RTE 4062 - Teaching Methodologies in Medical Imaging Education

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): MRI or CT Program Admission.
Formerly RTE 462 Provides a general overview of the concepts and theory of Medical Imaging education. It introduces current theories of teaching adult learners in the Imaging Sciences, objective development of active learning activities, classroom assessment techniques and delivering course content through distance-learning formats.

RTE 4082 - Internship: CT II

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 3082.
Formerly RTE 482 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Dental Hygiene, BAS

See list of Department Chairs on the Personnel page.

Career Opportunities

This program prepares the licensed dental hygienist to academically expand their knowledge and career opportunities in the professions of education, program administration, public health, research or sales.

Program Description

This Bachelor of Applied Science Degree Completion Program is designed for licensed dental hygienists who have completed an associate degree from a regionally accredited institution that is also accredited by the Commission on Dental Accreditation. The goal of the Registered Dental Hygienist (RDH) to BASDH program is to work with each

student to enhance knowledge and provide expanded career opportunities. Obtaining a BAS degree may also provide the lifelong learner the knowledge base to prepare them academically should they wish to pursue a master's degree for additional career opportunities.

Program Requirements

Entrance Requirements:

Students must complete a current Dental Hygiene BAS program application and meet all minimum program requirements and application timelines. The application is available on the Dental Hygiene BAS website. Applicants should also seek advisement from the program director for assistance with meeting all admission requirements. In addition, students must meet the following admissions requirements:

1. Graduate from a regionally accredited dental hygiene program that is also accredited by the Commission on Dental Accreditation.
2. Pass the National Board Dental Hygiene Exam.
3. Hold a current dental hygiene license in a US state.

Total Credits: 27

General Education Requirements (3 Credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Curriculum Requirements (24 Credits)

First Fall Semester

HPR 4003 - Critical Review of Healthcare Research

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program

Formerly HPR 403 Covers the identification, evaluation, and analysis of scientific published literature necessary to identify healthcare best practices, the formulation of research for clinical questions for effective participation in healthcare discussions and evidence-based decision-making.

DEH 3001 - Advanced Careers in Dental Hygiene

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 301 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.

First Spring Semester

DEH 3041 - Clinical Teaching Methodologies

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 341 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 4055 - Topics in Dental Public Health

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 455 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.

Second Fall Semester

DEH 3055 - Social and Behavioral Determinants of Oral Health

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 355 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.

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

Second Spring Semester

DEH 4089 - Capstone: Dental Hygiene

Credit(s): 5
Seminar Hour(s): 5
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 489 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.

Electives if Needed for Institutional Credit

- Any 300 or 400 level HPR BAS course

Miscellaneous Information

[1] Course taught in the first eight weeks of the semester

[2] Course taught in the second eight weeks of the semester

Magnetic Resonance Imaging, BAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The BAS in Radiologic Technology program prepares students for careers in Computed Tomography (CT) or Magnetic Resonance Imaging (MRI), Leadership and Teaching in Medical Imaging.

Program Description

The BAS in Radiologic Technology program teaches students to perform Computed Tomography (CT) exams or Magnetic Resonance Imaging (MRI) exams as well as how to lead or teach others in the Medical Imaging Department. It provides students with an additional imaging modality and prepares them to take on leadership roles in the imaging department in health care facilities.

Program Requirements

Entrance Requirements:

Applicants must hold an associate's degree and be a registered radiologic technologist with the American Registry of Radiologic Technologists (ARRT).

Graduation Requirements:

Must complete 120 credits including didactic and clinical components of the program.

Total Credits: 120

Curriculum Requirements (43 Credits)

First Year-Fall Semester

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

First Year-Spring Semester

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

RTE 3011 - Sectional Anatomy for Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 311 Identifies anatomy in various imaging planes of advanced modalities. Compares normal anatomy with gross pathology on advanced cross-sectional images. Evaluation of anatomy and pathology will include head, spine, thorax, abdomen/pelvis and extremities.

RTE 3012 - IV Certification for Contrast Medium

Credit(s): 1
Lecture Hour(s): 0.50
Clinic Hour(s): 1

Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 312 Prepares the student to perform IV contrast administration including knowledge of arterial and venous anatomy, appropriate puncture sites, necessary equipment and supplies, understanding of different contrast media, injectors and administration safety.

RTE 3021 - Theory and Application of MR Imaging I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 321 Applies the fundamental principles of MRI in order 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.

Summer Semester

RTE 3031 - MRI Protocols and Procedures

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 331 Develops the knowledge necessary to perform procedures for imaging various anatomical structures utilizing MRI. It provides instruction on routine parameter selection, patient positioning, coil selection and application and anatomy and pathologies demonstrated on MR images.

RTE 3081 - Internship: MRI I

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 381 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Second Year-Fall Semester

RTE 4021 - Theory and Application of MR Imaging II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 3021.
Formerly RTE 421 Examines in-depth knowledge of designing MRI pulse sequences, data manipulation, artifacts and quality control and quality assurance procedures. Special consideration will be given to methods to shorten scan time, k-space filling and reconstruction, Fast Fourier Transform and image transfer and storage systems used in healthcare facilities.

RTE 4031 - Advanced MRI Protocols and Procedures

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): RTE 3031.
Formerly RTE 431 Examines specialized advancements in MRI. Emphasis will be placed on the heart and vasculature, functional imaging, contrast agents and their uses, enterography, pelvic run-off and breast imaging.

RTE 4061 - Leadership in Medical Imaging

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): MRI or CT Program Admission.
Formerly RTE 461 Examines concepts and skills needed for leadership roles in Medical Imaging. It prepares the student with communication, time management, supervision, task delegation, conflict management and performance assessment skills.

or

RTE 4062 - Teaching Methodologies in Medical Imaging Education

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): MRI or CT Program Admission.
Formerly RTE 462 Provides a general overview of the concepts and theory of Medical Imaging education. It introduces

current theories of teaching adult learners in the Imaging Sciences, objective development of active learning activities, classroom assessment techniques and delivering course content through distance-learning formats.

RTE 4081 - Internship: MRI II

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 3081.
Formerly RTE 481 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Radiologic Technology BAS

See list of Department Chairs on the Personnel page.

Applicants must meet the following criteria:

- AAS in Radiologic Technology from a regionally accredited institution in radiologic technology
- Registered Radiologic Technologists with American Registry of Radiologic Technologist (AART) in good standing
- Minimum cumulative GPA of 2.00 (C) for all course work completed
- College transfer courses accepted for program entry require a cumulative GPA of 2.00 (C) on a 4.00 scale in related course work
- Meet PCC admissions criteria

Program Requirements:

The Bachelor's in applied Science Degree consists of 120 credit hours with transfer of AAS and general education courses.

BAS general education credits need to total a minimum of 30 credits

RTE AAS transcripts will be evaluated—credit amount will vary depending on the awarding institution

Students can receive prior learning credits for current registries

Additional 300/400 level courses earned through PCC

Any remaining credit hour can be earned through electives if necessary

Graduation Requirements

Students can use a combination of transcripted credits, prior learning assessment, current registry/certificates and additional bachelor level course work at Pueblo Community College to obtain the 120 credits required.

A minimum of 30 credits must be completed at PCC.

Students must complete all courses in their chosen track (MRI or CT) and all general education courses with a grade of C or better.

Internship Requirements

Documentation of current license

Evidence of current CPR

Evidence of professional liability insurance

Documentation of immunizations

Successful background check

Meet requirements of receiving institution

Total Credits: 120

Fall Semester (12 credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2

Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Spring Semester (14 credits)

MRI Tract

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

RTE 3011 - Sectional Anatomy for Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 311 Identifies anatomy in various imaging planes of advanced modalities. Compares normal anatomy with gross pathology on advanced cross-sectional images. Evaluation of anatomy and pathology will include head, spine, thorax, abdomen/pelvis and extremities.

RTE 3021 - Theory and Application of MR Imaging I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 321 Applies the fundamental principles of MRI in order 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.

HPR 4011 - Leadership and Management in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 411 Provides a general overview of the concepts and theories relative to leadership and management in

health care settings. This course covers concepts in decision-making models, ethical reasoning skills, effective communication, interpersonal and inter-professional relationships, management of human and fiscal resources, risk management, and quality improvement.

CT Tract

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

RTE 3011 - Sectional Anatomy for Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 311 Identifies anatomy in various imaging planes of advanced modalities. Compares normal anatomy with gross pathology on advanced cross-sectional images. Evaluation of anatomy and pathology will include head, spine, thorax, abdomen/pelvis and extremities.

RTE 3041 - Theory and Application of CT Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 341 Applies the fundamental and advanced principles of Computed Tomography (CT) in order to perform clinical CT examinations of the human body with special consideration to image production, quality control, terminology, basic procedural steps and MRI equipment and safety.

RTE 3051 - CT Protocols and Procedures

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 351 Covers the skill and knowledge necessary to perform supplemental procedures for imaging various anatomical structures including the head, spine, chest, abdomen, pelvis and extremities utilizing Computed Tomography. It provides instruction on gross pathological conditions demonstrated on CT images.

HPR 4011 - Leadership and Management in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 411 Provides a general overview of the concepts and theories relative to leadership and management in health care settings. This course covers concepts in decision-making models, ethical reasoning skills, effective communication, interpersonal and inter-professional relationships, management of human and fiscal resources, risk management, and quality improvement.

Summer Semester (8 credits)

MRI Tract

RTE 4031 - Advanced MRI Protocols and Procedures

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): RTE 3031.
Formerly RTE 431 Examines specialized advancements in MRI. Emphasis will be placed on the heart and vasculature, functional imaging, contrast agents and their uses, enterography, pelvic run-off and breast imaging.

RTE 3081 - Internship: MRI I

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 381 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

RTE 3012 - IV Certification for Contrast Medium

Credit(s): 1
Lecture Hour(s): 0.50
Clinic Hour(s): 1

Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 312 Prepares the student to perform IV contrast administration including knowledge of arterial and venous anatomy, appropriate puncture sites, necessary equipment and supplies, understanding of different contrast media, injectors and administration safety.

CT Tract

RTE 4051 - Advanced CT Protocols and Procedures

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 3051.
Formerly RTE 451 Provides the skill and knowledge necessary to perform advanced specialty procedures for imaging various anatomical structures utilizing Computed Tomography. It distinguishes vascular anatomy and incorporates contrast media injections and contraindication into complex imaging studies.

RTE 3012 - IV Certification for Contrast Medium

Credit(s): 1
Lecture Hour(s): 0.50
Clinic Hour(s): 1

Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.

Formerly RTE 312 Prepares the student to perform IV contrast administration including knowledge of arterial and venous anatomy, appropriate puncture sites, necessary equipment and supplies, understanding of different contrast media, injectors and administration safety.

RTE 3082 - Internship: CT I

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 382 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Fall Semester (13 credits)

MRI Tract

RTE 4021 - Theory and Application of MR Imaging II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 3021.
Formerly RTE 421 Examines in-depth knowledge of designing MRI pulse sequences, data manipulation, artifacts and quality control and quality assurance procedures. Special consideration will be given to methods to shorten scan time, k-space filling and reconstruction, Fast Fourier Transform and image transfer and storage systems used in healthcare facilities.

RTE 4031 - Advanced MRI Protocols and Procedures

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): RTE 3031.
Formerly RTE 431 Examines specialized advancements in MRI. Emphasis will be placed on the heart and vasculature, functional imaging, contrast agents and their uses, enterography, pelvic run-off and breast imaging.

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

RTE 4081 - Internship: MRI II

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 3081.

Formerly RTE 481 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

CT Tract

MAN 2025 - Managerial Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 225 Examines the concepts and techniques used to analyze financial accounting information for managerial planning, decision-making, and control. Additionally, the course discusses decision-making relating to the areas of budgets, forecasts, cost volume production, Return on Investment (ROI) and financial statements.

OR

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

RTE 4082 - Internship: CT II

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 3082.
Formerly RTE 482 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Miscellaneous Information

[1] One credit elective course to be used if additional course work is required for applicant

[2] Students are required to complete either HPR 411 Leadership & Management in Health Professions **OR** HPR 468 Pedagogy in Health Professions

[3] Offered in the first eight (8) weelks

[4] Offered in the second eight (8) weeks

Respiratory Therapy, BAS

See list of Department Chairs on the Personnel page.

This program is designed for licensed and registered respiratory therapists who have completed an Associate Degree in Respiratory Therapy from an accredited (Commission on Accreditation for Respiratory Care; CoARC) program and wish to continue their education and obtain a Bachelor of Applied Science degree. Students will receive 5 to 25 Prior Learning Assessment (PLA) credits for Registered Respiratory Therapy (RRT) and current state licensure. This program provides a student centered on-line learning environment meant to enhance career opportunities. The students will engage in self-directed learning activities and gain specialized knowledge utilizing critical thinking, personal inquiry and reflective practice.

Admission Requirements:

Applicants must meet the following criteria:

- Graduated from an accredited respiratory care program (Commission on Accreditation of Respiratory Care (CoARC)
- Hold a current respiratory therapy license in any state
- Hold a current credential from the National Board of Respiratory Care (NBRC) as a Registered Respiratory Therapist (RRT)
- Have a cumulative GPA of 2.5 for Respiratory Therapy degree and all other required pre-requisite courses must be completed at a "C" level or better.
- Meet PCC admissions criteria

Program Requirements

- The Bachelor's in Applied Science Degree consists of 120 credit hours with the transfer of AAS and general studies courses.
- General studies courses take as AAS: (19 credit hours)
- RCA specific coursework taken as part of AAS in Colorado (54.5 credit hours)
- Additional 300/400 level courses earned through PCC (BAS RT – 28 credit hours)
- A total of 30 credits in general education between the AAS and BAS degree with a minimum of 15 credits in GT pathway designation. Including possible block transfer/Prior Learning Assessment (PLA) for Respiratory Therapy AAS degree, NBRC Registered Respiratory Therapist and current state licensure.
- Any remaining credit hours can be earned through electives if necessary.
- Transferring students from outside the CCCS system will have transcripts evaluated for meeting admissions requirements

Total Credits: 120

Respiratory Therapy-Degree Transfer Credits

Respiratory Therapy, AAS

Fall -- 15

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OR

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

HPR 4003 - Critical Review of Healthcare Research

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program

Formerly HPR 403 Covers the identification, evaluation, and analysis of scientific published literature necessary to identify healthcare best practices, the formulation of research for clinical questions for effective participation in healthcare discussions and evidence-based decision-making.

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

RCA 4001 - Sleep Medicine

Credit(s): 3
Lecture Hour(s): 3
Formerly RCA 401 Develops a working knowledge in sleep medicine for health care professionals by reviewing and identifying diagnostic procedures, therapeutic interventions, and sleep disorders.

RCA 4000 - Current Topics in Pulmonary Disease

Credit(s): 3
Lecture Hour(s): 3
Formerly RCA 400 Analyze current issues related to respiratory disease, including pathophysiology, management, and outcomes.

Spring -- 18

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

HPR 4011 - Leadership and Management in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 411 Provides a general overview of the concepts and theories relative to leadership and management in health care settings. This course covers concepts in decision-making models, ethical reasoning skills, effective communication, interpersonal and inter-professional relationships, management of human and fiscal resources, risk management, and quality improvement.

HPR 3010 - Quality Improvement in Health Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 310 Introduces approaches to assessing risk and improving health care quality through the practice of Continuous Quality Improvement (CQI). Course explores the conceptual framework for quality improvement, a focus on quality improvement as a strategy to manage cost, boost productivity, and enhance quality outcomes in various health care settings. The course will focus on both conceptual understanding and experiential learning.

RCA 4002 - Advanced Concepts in Respiratory Therapy

Credit(s): 3
Lecture Hour(s): 3
Formerly RCA 402 Evaluates and analyzes current monitoring and diagnostic procedures for the cardiopulmonary

patient in the acute and non-acute care settings with an emphasis on quality control, correlation of patient data, application of technology, and analysis of therapeutic protocols and procedures.

- Choose GT course in college catalog. **Credit(s): 3**[3]

Summer -- 7

HPR 3001 - Communications in Health Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 301 Develops professional written and oral communication plans to ensure effective patient-centered outcomes between health care professionals, patients and caregivers.

RCA 4078 - Senior Seminar

Credit(s): 2
Lecture Hour(s): 2
Formerly RCA 478 Senior seminar for respiratory care creating a senior project that applies knowledge and concepts through the use of problem-based learning methods in the research and evaluation of industry best practices.

HPR 4089 - Inter-Professional Capstone

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required.
Formerly HPR 489 Provides a demonstrated culmination of learning within a given program of study.

Notes

[1] Courses taught in the first 8 weeks of the semester

[2] Courses taught in the second 8 weeks of the semester

[3] GT Pathway courses can be found in the College Catalog

[4] Also offered spring semester

[5] Also offered fall semester

Secure Software Development BAS

Computer Information Systems

See list of Department Chairs on the Personnel page.

Bachelor of Applied Science -- Secure Software Development

120 Credit Hours

Total Credits: 120

General Educaton (30 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

- Choose one CCCS GT-SC1 **Credit(s): 4**

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

- Choose General Education Electives **Credit(s): 13**

Lower Division (51 credits)

CIS 2020 - Fundamentals of Unix

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 220 Explores the structure and fundamentals of the Unix operating system including the file system and file processing, various utility programs, shell, multi-user operation, text processing, and communications.

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CIS 2087 - Cooperative Education

Credit(s): 1-12
Internship Hour(s): 3-36
Formerly CIS 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1031 - Principles of Information Assurance

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 131 Provides skills and knowledge required to survey key issues associated with protecting information assets, determine the levels of protection and response to security incidents, and design a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. Students learn to inspect and protect information assets, detect and react to threats to information assets, and examine pre- and post-incident procedures, and technical and managerial responses. Students learn about information security planning and staffing functions.

CNG 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

CSC 1029 - Introduction to Secure Coding

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1060
Formerly CSC 129 Focuses on introduction to secure coding. Emphasizes concepts, principles, and best practices of structured secure programs within security standards. Analysis of design of secure programming is stressed, including costs, threats, security concepts, policies, coding flaws, vulnerabilities, exploits, and code mitigation. Analysis of the design of legacy and contemporary object oriented languages is emphasized. Focuses on the application of secure coding principles, standards to resolve code flaws and vulnerabilities.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer

Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

CSC 2041 - Advanced Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 2040 or CSC 1060
Formerly CSC 241 Covers advanced programming topics including multi-threading, network/internet programming, database programming, and JavaBeans. This course focuses on writing Java Enterprise Edition (Java EE) complex programs.

CSC 2045 - Secure Software Development: (Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1029 and CSC 1061
Formerly CSC 245 Focuses on functionality when implementing security consequences with regard to formatted output and arithmetic operations in a program. The course introduces how to write a program that creates safe, reliable, and secure systems free from undefined program behaviors and exploitable vulnerabilities.

CSC 2046 - Mobile App Development

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 246 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 2067 - Object-Oriented Analysis and Design

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 267 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.

CWB 2005 - Client-Side Scripting: (Software)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 205 Explores the client-side programming skills necessary to create dynamic web content using a markup embeddable and procedural scripting language executed on the client web browser.

Upper Division (39 credits)

CSC 3000 - Advanced Computer Architecture

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2025 and CSC 2045
Formerly CSC 300 Covers the analysis of advanced concepts in the applications of computer architecture and programming capabilities with keyboard and display controllers within programs. This course investigates the impact of exceptions and interrupts within a simulator, examines the hazards associated with a pipelined datapath, and uses the analysis of floating-point instructions.

CSC 3020 - Software Engineering Fundamentals

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045
Formerly CSC 320 Focuses on the skills necessary to analyze, design, and implement software engineering projects. The course includes software engineering standards and processes, qualitative aspects including maintainability, extensibility, reusability, and robustness in every stage of the software-engineering life-cycle.

CSC 3022 - Security Fundamentals and Databases

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045 and CIS 2040 and CIS 2043
Formerly CSC 322 Examines the vulnerabilities of databases to attack. Functional requirements and security testing, focusing on the interaction between a software user and the application, are analyzed. This course will investigate database platforms and provide database developers with an understanding of database development best practices for optimum security.

CSC 3024 - Secure Coding Vulnerabilities I

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045
Formerly CSC 324 Focuses on analyzing and implementing software vulnerabilities. This course explores vulnerabilities through code evaluation and implementation of language-specific solutions.

CSC 3026 - Secure Scripting of Operating Systems

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1029 and CIS 2020
Formerly CSC 326 Focuses on analyzing and configuring an environment and assessing configuration variables in

multiple operating systems. Topics include using multiple utilities in order to assimilate information on a network, host and data communications, and creating scripts for evaluation.

CSC 3028 - Security Libraries in Programming Languages

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1029
Formerly CSC 328 Focuses on the issues surrounding security libraries within programming languages. This course analyzes static typing within a software program to assess integrity within a given programming library. The course will also explore what effect mutable resources have on security, along with encryption tools, and violation channels.

CSC 4022 - Secure Software Engineering

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045
Formerly CSC 422 Focuses on the analysis and functionality of defective software and how to develop and implement secure software. The analysis performed by software engineers in order to detect, repair, and maintain safe systems will also be covered.

CSC 4024 - Secure Code Vulnerabilities II

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 3024
Formerly CSC 424 Focuses on advanced implementation of software vulnerabilities. This course covers attack vectors frequently used by malicious actors such as email attachments, compromised "watering hole" websites, and other tools often relied on to take advantage of unpatched vulnerabilities found in widely-used software applications. Patching techniques will be deployed in order to repair vulnerabilities found in software components.

CSC 4026 - Secure Cloud Programming

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045
Formerly CSC 426 Focuses on analyzing and implementing secure applications in the cloud. Topics covered will include designing and implementing applications via the cloud with a focus on security policies, analyzing computer models with recommendations to reduce the risks and security challenges surrounding programming, and data security within the cloud.

CSC 4028 - Software Security Testing

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045

Formerly CSC 428 Focuses on testing software as it pertains to vulnerabilities within operating systems, libraries, and cloud applications. Topics covered include implementing testing environments through analytical assessments using tools that detect software inefficiencies and using reliable solutions in order to reduce security risks.

Health Information Management BAS

See list of Department Chairs on the Personnel page.

Program Description

The PCC graduate will understand the issues in contributing to quality healthcare, have a heart for the needs of the patient population, and have the technological skills to deliver excellent support to frontline providers and manage all aspects of the health record.

- Health information is human information – we focus on patient and quality care
- Fully online (except for the internship that is flexible and workable for students with other commitments)
- Student-centered
- Curriculum designed to produce workforce-ready graduates who can work locally and remotely
- Students develop skills and competencies created for success in the rapidly evolving health information environment
- Program incorporates engagement with local professional community
- Well-educated staff with experience in many areas of health information
- Currently, the program is in the process of accreditation by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) so that the graduates will be eligible to sit for the Registered Health Information Administrator (RHIA) exam
- Program embraces the growing importance of technology and is an Approved Educational Partner (EAP) of the Health Information Management Systems Society (HIMSS)

Total Credits: 120

General Education Requirements: 31

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

OR

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

- Any 3 credit course with a COM prefix **Credit(s): 3**

Lower Division: 48

CIS 1055 - PC Spreadsheet Concepts: (Software Package)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 155 Introduces basic to advanced features of spreadsheet software to design and create accurate, professional worksheets for use in business and industry. The course includes entering data, creating formulas, professional formatting, creating charts, creating, sorting and filtering tables, creating and using templates, applying built-in functions, creating pivot tables, applying "what-if analysis" with data tables, creating macros, and using solver features.

OR

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 102 Introduces medical vocabulary through the study or word structures and phrases. Reinforcement is provided through writing narratives and examining medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis will be on learning to read, pronunciation and interpretation of medical documentation . The importance of HIPAA is illustrated, in both physical and electronic dissemination of medical records.

HPR 1032 - Disease Process and Treatment

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): BIO 1006
Formerly HPR 232 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 2061 - Healthcare Software

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 261 This course covers basic computer system architecture, file structure, and design for health care 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 1005 - Principles of Healthcare Reimbursement

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020 and HIT 2041
Formerly HIT 105 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 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3

Formerly HIT 111 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 1012 - Legal Aspects for Health Records

Credit(s): 2
Lecture Hour(s): 2
Formerly HIT 112 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 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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 1088 - Health Information Practicum I

Credit(s): 2
Practicum Hour(s): 4
Prerequisite(s): HIT 2052 or Department Chair Approval
Formerly HIT 188 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 2020 - ICD Coding I

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032
Formerly HIT 220 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 2022 - Quality Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 222 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 2025 - Health Information Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 225 Concentrates on the principles of management as they relate to the administration of the health information management department as part of a health care organization.

HIT 2052 - ICD Coding II for Certification

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020, HIT 2041
Formerly HIT 252 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 2089 - HIT Capstone Course

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required
Formerly HIT 289 Provides a demonstrated culmination of learning within a given program of study.

HIT 2041 - CPT Coding Basic Principles

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032.
Formerly HIT 241 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 1089 - Practicum

Credit(s): 3
Practicum Hour(s): 9
Prerequisite(s): Department chair approval
Provides an opportunity to gain practical experience in applying skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

HIT 2068 - Certification Test Preparation

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Department Chair Approval.
Formerly HIT 268 Prepares students who have made the decision to obtain a national health information technology credential by completing national credentialing exams.

Upper Division: 41

HIM 3000 - Data Structure and Design in HIM – Domain I

Credit(s): 3
Lecture Hour(s): 3
Compares diverse stakeholder perspectives of the delivery of healthcare services and analyzes corporate strategies for the management of information.

HIM 3005 - Health Record Compliance and Data Integrity – Domain I

Credit(s): 3
Lecture Hour(s): 3
Evaluates policies and strategies to achieve data integrity and examines recommended health record content across the healthcare system.

HIM 3010 - Health Information Governance – Domain I

Credit(s): 3
Lecture Hour(s): 3
Utilizes classification systems, clinical vocabularies, and medical nomenclatures and evaluates data dictionaries and datasets for compliance with information governance standards.

HIM 3015 - Health Privacy and Security – Domain II

Credit(s): 3
Lecture Hour(s): 3
Examines health information privacy and security strategies for recommended implementation in the healthcare organization and analyzes corporate compliance requirements throughout the health information life cycle.

HIM 3020 - Health Information Systems – Domain III

Credit(s): 3
Lecture Hour(s): 3
Analyzes technologies for health information management and introduces health informatics concepts for the management of health information.

HIM 3025 - Data Analytics and Visualization in Healthcare – Domain III

Credit(s): 3
Lecture Hour(s): 3
This course examines healthcare findings using data visualizations and the comparison to research methodologies pertaining to healthcare.by interpreting statistics for health services

HIM 3030 - Data Use and Management in Healthcare – Domain III

Credit(s): 3
Lecture Hour(s): 3
Examines data management techniques and identifies standards for the exchange of health information. This course includes assessment of systems and recommendation of appropriate systems to meet organizational needs.

HIM 4000 - Revenue Cycle Management – Domain IV

Credit(s): 3
Lecture Hour(s): 3
Evaluates the assignment of diagnostic and procedural codes and groupings in accordance with official guidelines. This course examines techniques for management of components of the revenue cycle; and evaluates compliance with regulatory requirements and reimbursement methodologies.

HIM 4005 - Health Law and Compliance – Domain V

Credit(s): 3
Lecture Hour(s): 3
Examines regulatory compliance with legal processes impacting health information; evaluates corporate compliance with external regulatory forces; analyzes components of risk management for compliance with local, state, and federal policies.

HIM 4010 - Management and Leadership in Healthcare – Domain VI

Credit(s): 3
Lecture Hour(s): 3
Examines fundamental leadership skills and assesses the impact of organizational change.

HIM 4015 - Human Resources and Financial Mgmt in Healthcare – Domain VI

Credit(s): 3
Lecture Hour(s): 3
Analyzes human resource strategies for organizational best practices; identifies data-driven performance improvement techniques for decision-making; analysis of financial management processes for staffing.

HIM 4020 - Org Ldshp for DEI in Healthcare-Domain VI

Credit(s): 3
Lecture Hour(s): 3
Examines leadership behaviors that embrace cultural diversity, assesses ethical standards of practice, and facilitates consumer engagement activities.

HIM 4089 - HIM Capstone Course

Credit(s): 0-12
Practicum Hour(s): 0-36
To be determined by the individual instructor. A Course description will be developed for each course and documented within the course syllabus.

Cybersecurity BAS

See list of Department Chairs on the Personnel page.

Program Description

The BAS degree in Cybersecurity consists of 120 credits. As a stackable credential, 60 or more credits from a relevant Associate Degree will meet BAS degree requirements. The degree is designed so that students who have earned an AAS degree in Cybersecurity or Secure Software Development will be prepared to enter the program as a junior.

Career Options

Information Security Analysts, Penetration Testers, Network and Computer Systems Administrators, Computer Systems Analysts

Total Credits: 120

General Education Requirements (16 credits)

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

- Choose two additional General Electives **Credit(s): 6**

Upper Division Core Requirements (31 credits)

CNG 3020 - Cyber Law Ethics and Policy

Credit(s): 4
Lecture Hour(s): 3

Vocational Lab Hour(s): 1.5
Covers ethical and legal issues that arise in relation to employment in the public and private sectors. The main focus of the course will be the ethical and legal standards governing information technology. This course provides a framework for making ethical decisions.

CNG 3036 - Business Continuity and Disaster Recovery

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Covers business continuity and disaster recovery principles including business impact analysis, assessment of risk, development of policies and procedures, and implementation of a plan. The course also covers securing, recovering, and restoring the organization's critical data in the aftermath of a disaster.

CNG 3040 - Cyber Operations

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Covers concepts of Confidentiality, Integrity, and Availability (CIA) basics together with authentication and non-repudiation; vulnerabilities; security principles and testing; operating systems; and cryptography. The course meets the requirements for security fundamental principles as well as the identification and mitigation of security vulnerabilities.

CNG 3050 - Cyber Investigation and Forensics

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Covers intrusion detection methodologies, tools, and approaches to incident response. This course explores the ethical and legal issues attendant to cyber investigations and forensics.

CNG 3056 - Vulnerability Assessment II

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Provides an in-depth understanding of ethical hacking phases, various attack vectors, and preventative countermeasures including how hackers think and act maliciously. The course also covers how organizations use found system weaknesses and vulnerabilities to strengthen their system security controls and minimize the risk of an incident. This course covers an active offensive defense posture toward the responsibilities and measures required to be secure.

CNG 4000 - Active Cyber Defense

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Introduces the policies, techniques, and operational capabilities and limitations of implementing an Active Cyber Defense program. A broad survey of development of defensible network architectures; integration of passive defensive technologies; consumptions and production of Cyber Threat Intelligence (CTI) products; implementation of Network Security Monitoring (NSM) and Hunt Teaming (HT) operations; employment of Incident Response (IR) plans; and Threat and Environment Manipulation techniques (TEM) will be presented.

CNG 4010 - Cyber Threat Intelligence

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Provides an in-depth investigation of threat actors and the techniques they employ to attack networks. This course covers threat capabilities and objectives. Formal ethical hacking methodology including reconnaissance, scanning and enumeration, gaining access, escalation of privilege, maintaining access, and reporting is examined.

CNG 4080 - Internship

Credit(s): 0-12
Internship Hour(s): 0-36
To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Upper Division Emphasis Requirements (12 credits)

Choose three.

CNG 3010 - Fundamentals of Cybersecurity

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Introduces the fundamentals of cybersecurity including a broad survey of cybersecurity concepts, tools, technologies, and best practices.

CNG 3030 - Methods of Network Analysis

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Provides a methodology for analyzing networks by examining the network at its infrastructure, network, and application layers. The course explores how networks transfer data, how network protocols enable communication, and how the lower-level network layers support the upper layers.

CNG 4020 - Zero Trust Networks

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
N/A

CNG 4030 - Cyber War

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5

Introduces what constitutes cyber warfare along with its policy, doctrine, and operational constraints. This course presents a broad survey of cyber tools, techniques, and procedures to practice and implement attack methodologies.

CNG 4054 - Malware Threats and Analysis

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Covers methodologies to safely perform static and dynamic analysis of code from potentially unknown origins, including obfuscated malware in order to better understand the software's purpose and functionality. This course covers the fundamental principles of malware analysis and software reverse engineering.

Business Administration BAS

Total Credits: 120

Spring Semester 1 (15 credits)

Fall Semester 1 (15 credits)

Spring Semester 2 (15 credits)

Fall Semester 2 (15 credits)

Bachelor of Science in Nursing

Bachelor of Science in Nursing

See list of Department Chairs on the Personnel page.

The PCC RN to BSN Program is designed for licensed Registered Nurses who have completed an Associate Degree in Nursing (ADN) in a nationally accredited nursing program and for students enrolled in an accredited ADN program. The RN to BSN provides a student centered online learning environment meant to enhance career opportunities for RNs who wish to continue their education and obtain a Bachelor of Science Degree in Nursing (BSN).

Career Information

The BSN program prepares RNs to navigate the competitive nursing work arena through the integration of current knowledge, research, and information literacy, application of information management technology, demonstration of leadership skills, and advocacy at local, state, national and global levels for patients and for the nursing profession with regard to healthcare policy. BSN prepared nurses are able to meet the increasing professional challenges of healthcare in all settings.

Application/Admission

- Fall start: Application deadline of July 31

Spring start: Application deadline of November 30

Summer start: Application deadline of March 31

- Students must have graduated from an accredited Associate Degree in Nursing program or be in good standing in the ADN Program.

- Submission of unofficial ADN transcripts are required.

Program

- 120 credits comprise the PCC Bachelor of Science in Nursing degree.
- Block transfer accepted of up to 71.5 credits from accredited ADN Program
- Unencumbered RN License & Current BLS/CPR required for NUR 409 and NUR 410
- 18 General Education credits are required
- 30.5 credits of baccalaureate nursing coursework complete the program

Graduation

- Students may use a combination of transcribed credits and bachelor level course work to obtain the 120 required credits. Transferred BSN courses will be evaluated individually for applicability to the PCC RN to BSN Program.
- The granting of the BSN degree from PCC requires a minimum of 30 credits completed at the college.
- If electives are necessary to achieve the 30 graded credits at PCC they must be taken at the 300/400 level.

BSN applicants should arrange an advising appointment with the PCC Nursing Department.

Please call 719-549-3409.

Total Credits: 120

First (9 credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category.
GT-MA1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

GT-HI1 - History Course **Credit(s): 3**

Second (9 credits)

- GT-AH1, AH2, AH3, or AH4 - Arts & Humanities Courses **Credit(s): 6**
- GT-SS1, SS2, SS3 - Social Sciences **Credit(s): 3**

BSN Core Curriculum Fall Start

Fall (6 credits)

NUR 3001 - Integration into Baccalaureate Nursing Practice

Credit(s): 3
Lecture Hour(s): 3
Formerly NUR 301 Explores professional nursing practice at the baccalaureate level. The course focuses on knowledge and understanding of the professional nursing standards and the nursing role at a baccalaureate level.

NUR 3002 - Trends in Nursing Practice

Credit(s): 3
Lecture Hour(s): 3
Formerly NUR 302 Examines current issues that nurses encounter in the health care environment including their roles and responsibilities within the nursing profession.

Spring (6 credits)

NUR 3003 - Nursing Research / Evidence Based Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002, MAT 1260
Formerly NUR 303 Provides opportunity to analyze concepts associated with nursing research, collection, and analysis of data with emphasis on integration of evidenced-based practice within nursing. The course provides techniques for critiquing published research.

AND

NUR 3004 - Informatics / Healthcare Technology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 304 Explores concepts and applications related to the nurse's role in utilizing healthcare informatics involving patient care technology. This course will explore the impact of information management systems on the delivery of patient care, healthcare teams, and health outcomes.

NUR 3005 - Emergency Preparedness

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 305 Focuses on the nurse's roles and responsibilities in the most common types of disasters and how the nurse can deliver effective care in various emergency situations.

NUR 3006 - Gerontology Nursing

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 306 Focuses on optimizing health for the aging client within the framework of the nursing process. The course places emphasis on supporting the unique needs of the aging population.

NUR 3007 - Behavioral Health

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001 , NUR 3002
Formerly NUR 307 Provides an overview of behavioral health promotion for individuals, families, and populations with behavioral health concerns. The focus of the course will explore the nurse's impact on behavioral health trends.

Summer (3 credits)

NUR 3004 - Informatics / Healthcare Technology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 304 Explores concepts and applications related to the nurse's role in utilizing healthcare informatics involving patient care technology. This course will explore the impact of information management systems on the delivery of patient care, healthcare teams, and health outcomes.

NUR 3005 - Emergency Preparedness

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 305 Focuses on the nurse's roles and responsibilities in the most common types of disasters and how the nurse can deliver effective care in various emergency situations.

NUR 3006 - Gerontology Nursing

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 306 Focuses on optimizing health for the aging client within the framework of the nursing process. The course places emphasis on supporting the unique needs of the aging population.

NUR 3007 - Behavioral Health

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001 , NUR 3002
Formerly NUR 307 Provides an overview of behavioral health promotion for individuals, families, and populations with behavioral health concerns. The focus of the course will explore the nurse's impact on behavioral health trends.

Fall Semester (6.5 credits)

NUR 4008 - Legal and Ethical Issues Related to Professional Nursing Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 408 Emphasizes the ethical and legal obligations of professional nursing practice. The focus is on values clarification, ethical theory, and ethical decision-making models. This course also covers legal issues related to healthcare.

NUR 4009 - Leadership in the Nursing Profession

Credit(s): 3.5
Lecture Hour(s): 2.75
Clinic Hour(s): 1.5

Prerequisite(s): NUR 3001, NUR 3002, RN license
Formerly NUR 409 Focuses on the role of the professional nurse as a leader within healthcare. The course integrates concepts needed to assume leadership and management positions in the healthcare environment.

Spring (9 credits)

NUR 4010 - Community Health Nursing/Practicum

Credit(s): 6
Lecture Hour(s): 4.5
Clinic Hour(s): 3

Prerequisite(s): NUR 3001, NUR 3002, RN license
Formerly NUR 410 Focuses on the role of the professional nurse in community-based practice settings, with an emphasis placed on health promotion, prevention, and optimal wellness of the community.

NUR 4011 - Senior Seminar

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002, RN license
Formerly NUR 411 Integrates theory into practice by building on previous concepts and knowledge.

Notes

1 Prerequisites to all subsequent 300 & 400 level BSN courses

2 Unencumbered RN license required

3 Pre-requisite course MAT 135 required

Note: Accepted applicants are required to complete a background check and drug screen prior to registering for NUR 409 and NUR 410, as both courses have a required practicum at a clinical site.

A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into or continuation with the program.

Certificate

PCC offers the following Certificates that are eligible for federal or state financial aid funds. For more information, please contact the appropriate department chairperson .

Basic Machining

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 35

Certificate Requirements

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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 2043 - Mastercam

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly MAC 243 Introduces the concepts of creating basic 2D and 3D Mastercam wireframes, building and manipulating surfaces and solids. The practices and techniques of fixture incorporation, tool pathing, and machine code generation will be discussed. Basic user interfaces and custom interface setup will be covered, as well as common file storage.

MAC 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 1030 - Conventional Lathe Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 130 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 1031 - Milling Machines & Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 131 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 2050 - Advanced Inspection Techniques

Credit(s): 3
Lecture Hour(s): 1

Vocational Lab Hour(s): 3
Formerly MAC 250 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 2003 - Introduction to CNC Operations

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 203 Introduces basic writing and editing of CNC programs. G&M codes, math, speeds feeds, production processes including basic process controls, simple fixturing, and documentation associated with manufacturing will be covered.

MAC 2008 - CNC Operations II

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 208 Further develops skills in writing and editing advanced CNC programs. G&M codes, math, speeds deeds, production processes including multi-part, process controls, fixturing, and documentation associated with manufacturing will be covered.

Bookkeeping Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Bookkeeping Certificate program focuses on the role of accounting basics in Business and Management. Students learn to use accounting information to analyze business data and present conclusions. Students learn to use ledgers, journals, and worksheets to complete formal and informal accounting tasks.

Career Options

The Bookkeeping Certificate prepares students for entry level positions in Bookkeeping, Payroll, Accounting, and Auditing.

The recommended full time schedule starting in the fall semester is as follows.

Total Credits: 27

Semester One, Fall: 12

ACC 1011 - Introduction to Financial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on financial accounting concepts prescribed by Generally Accepted Accounting Principles (GAAP), including financial information for external partners, the accounting cycle process, basic terminology, transaction analysis, internal control systems, and financial statement preparation and analysis.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

OR

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

Semester Two, Spring: 15

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1012 - Introduction to Managerial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on the fundamentals of managerial accounting and cost management as tools to aid internal users' decision-making processes. This course covers basic managerial accounting concepts, such as product costing and cost behavior and control. It also covers internal management decision making tools, including cost-volume-profit analysis, budgeting, cost analysis, and planning and control systems.

ACC 1025 - Computerized Accounting

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 125 Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

Broadcasting & Production Technology Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in

these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 27

Certificate Requirements

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications, conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

MGD 2064 - Digital Video Editing II

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): MGD 1064
Formerly MGD 264 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

RTV 1002 - Beginning Television

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly RTV 102 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, preproduction, and post production.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

Business Fundamentals Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The AAS and Certificate programs prepare you for entry level positions in marketing, management or sales; they also give you the skills you need to open your own business.

Program Description

You will study management from three perspectives: marketing, management and economics. Marketing studies offer specific training in sales, advertising, promotion and marketing. Management studies offer a generalized perspective with broad applications in the business world. Economic studies give you a basic understanding of economics and its relationship to other disciplines.

The Business Fundamentals Certificate program prepares you for an entry-level position in business or for starting your own small business. You can apply all course work for this certificate to the AAS Degree in Business Management.

Total Credits: 25

Certificate Requirements

ACC 1015 - Payroll Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 115 Covers 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, including computerized payroll procedures.

OR

ACC 1031 - Income Tax

Credit(s): 3
Lecture Hour(s): 3
Formerly ACC 131 Introduces basic concepts of federal income taxation and tax administration with emphasis on taxation of individuals and sole proprietorships.

OR

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1021 - Accounting Principles I

Credit(s): 4
Lecture Hour(s): 4
Formerly ACC 121 This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and

merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

CHOOSE 4 COURSES BELOW (12 Credits)

BUS 1002 - Entrepreneurial Operations

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 102 Explores the essential requirements for starting and operating a business. This course covers basic concepts of business law, marketing, finance and operations. It guides the development of an effective business plan and prepares students to launch and sustain their own businesses.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3

Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

MAN 2000 - Human Resource Management I

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 200 Provides an overview of the contemporary issues, theories, and principles used to effectively manage human resources. Topics covered include job analysis and design, talent acquisition and retention, planning and recruiting human resources, selecting employees, job placement, employee training and performance management, selecting employees, compensation and benefits, and retaining employees.

MAN 2016 - Small Business Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 216 Examines the elements necessary for the successful formation of a new small business and to enhance the skills of those already involved in the operation of a small business. This course includes the development of a complete small business plan.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

Business Management Certificate

See list of Department Chairs on the Personnel page.

Program Description

Teaches you job performance skills related to careers in business. It is a short intensive course of study which prepares you for entry-level work. You can apply all course work to the AAS degree in Business Management.

Total Credits: 30

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1011 - Introduction to Financial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on financial accounting concepts prescribed by Generally Accepted Accounting Principles (GAAP), including financial information for external partners, the accounting cycle process, basic terminology, transaction analysis, internal control systems, and financial statement preparation and analysis.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)

Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

BUS 1016 - Personal Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 116 Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

MAR 2016 - Principles of Marketing

Credit(s): 3
Lecture Hour(s): 3
Formerly MAR 216 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.

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

Business Ownership Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Business Management program (AAS Degree and Certificates) prepares students for entry level positions in Marketing, Management, Sales, and Entrepreneurship. These offerings also provide opportunities for individuals working within the industry to up-skill and advance their careers. The (AA) in Business Management prepares students to transfer to bachelor's degree programs in Business Management. Per the statewide articulation agreement, students can complete fundamental courses at PCC and transfer to complete a Bachelor's Degree with a specific emphasis.

Total Credits: 18

Certificate Requirements (18 credits)

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

ENP 1006 - Entrepreneurship Opportunity Analysis/Feasibility Study

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 106 Determines if a business venture is feasible based on personal, professional, and financial goals. This course will help to identify and analyze the present climate for business ideas through an industry analysis, target market analysis, competitive analysis, and financial analysis.

ENP 2005 - Marketing for the Entrepreneur

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 205 Covers marketing strategies to launch and sustain an entrepreneurial venture. This course will include topics on marketing entrepreneurial ventures utilizing innovative and financially responsible marketing strategies. This course will help students to develop an understanding of entrepreneurial marketing goals and objectives. The course covers marketing principles and electronic marketing.

ENP 2006 - Entrepreneurship Legal Issues

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 206 Explores legal issues related to business entities including sole proprietorship, general partnerships, limited partnerships, and corporations. This course reviews articles of incorporation and the filing process, employment law, property, landlord tenant rights and duties, and business insurance.

ENP 2007 - Entrepreneurship Financial Topics

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 207 Will cover topics such as financial planning for entrepreneurs, understanding tax considerations, understanding financial documents, financial ratio analysis, cash flow management, cost of capital and budgeting, raising capital, valuation, risk assessment, and venture exits.

ENP 2009 - Entrepreneurship Business Plan

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 209 Guides students through the evaluation of a business concept. This course will include writing a comprehensive business plan. This course explores both traditional and lean business planning as a means to establish strategic vision and direction for a business. This course assesses the strengths and weaknesses of a business concept. This course will include identifying external and environmental factors related to business ownership and evaluating various resources available for funding small businesses.

CAD Basic

See list of Department Chairs on the Personnel page.

Program Description

This certificate provides basic skills in 2D computer. It prepares the student for entry level work in the field of Architectural Engineering Technicians.

Core Requirements (6 credits)

CAD 1101 - Computer Aided Drafting/2D I

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 101 Focuses on basic computer aided drafting skills using the AutoCAD software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning and Help access.

CAD 1102 - Computer Aided Drafting/2D II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): CAD 1101
Formerly CAD 102 Focuses on intermediate 2D Computer aided drafting skills using the AutoCAD software. Includes blocks, wblocks & dynamic blocks, hatching, isometric drawings, advanced dimensioning and dimension variables, layouts, paper space and viewports, templates, external references, attributes, raster images, & printing/plotting.

CIS: Information Basic Assurance

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 19

Certificate Requirements

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032

Formerly CNG 133 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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.

CIS: Certification Prep

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS IT Industry Certification Preparation Program provids the theory and technical training so that students are prepared to sit for examination to earn A+, Network+, and Security+ industry credentials, from CompTIA.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 16

Certificate Requirements

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational

security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

Cosmetology Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Cosmetology program prepares students for job entry skills, customer communication, and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

The Cosmetology program has a selective admissions process. The program application and requirements are available in the Health & Public Safety Division office or at Pueblo Community College Cosmetology from Nov to June 1 (check with department after June 1). All Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. Not meeting the criteria specific to the Cosmetology program may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Apply to Cosmetology program by June 1

(If after June 1 contact the department chair for application)

Program Courses

Once you have applied and been accepted to the cosmetology program, you will be registered by the department into the courses listed below per semester.

All cosmetology core courses require program admission.

Total Credits: 56

General Education, First or Last (3 credits)

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

First Fall (18 credits)

COS 1003 - Shampoo/Rinses/Conditioners I

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 103 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 1010 - Introduction to Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 110 Introduces theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. This course covers basic application techniques and procedures for the application of haircolor.

COS 1020 - Introduction to Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 120 Introduces haircutting theory relevant to patron protection, angles, elevations, and the analysis of hair textures as related to hair cutting procedures. This course covers proper use and care of hair cutting implements, basic hair cutting techniques using various cutting implements, and disinfection and sanitation procedures as they relate to haircutting.

COS 1030 - Introduction to Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 130 Combines theory with the practical application of hairstyling. This course covers roller placement, hair molding and shaping, pin curls, finger waves, comb-out techniques, air forming, thermal straightening, or curling for short to long hair.

COS 1040 - Introduction to Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 140 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 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

NAT 1008 - Introduction to Manicures, Pedicures, and Artificial Nails

Credit(s): 3
Clinic Hour(s): 6

Formerly NAT 108 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.

EST 1010 - Introduction to Skin Care

Credit(s): 3
Clinic Hour(s): 6

Formerly EST 110 This course covers the study of skin in both theory and practical applications for skin care professionals. Topics included in the course are: skin structure and function, massage manipulations while providing facials and the benefits derived from a proper facial, and good skin care routines. Training is conducted in a classroom or lab setting using manikins or models.

EST 1011 - Intermediate Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1010.
Formerly EST 111 This course covers skin care and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students will help patrons to select the proper skin care treatment(s). Practical and theory application can be done in specialized classes or supervised salon setting using models or customer service.

First Spring (16 credits)

COS 1011 - Intermediate: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 111 Expands on haircoloring theory and practical application of color products, formulations of color, level and shades of color. Students will learn application techniques in a specialized class or in a supervised salon setting.

COS 1021 - Intermediate I: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020
Formerly COS 121 Expands on basic haircutting theory incorporating facial shapes, head and body forms to determine the appropriate techniques required to complete a client haircut. Students will apply hair cutting techniques in specialized classes or in the supervised salon.

COS 1031 - Intermediate I: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 131 This course covers the accepted methods of styling hair, air forming, roller sets, finger waves, pin curls, braiding, and hair pressing.

COS 1041 - Intermediate I: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 141 Emphasizes theory and practical application of chemical texture, including permanent waves and chemical relaxers, in a supervised salon setting. Students will practice different wrapping techniques required by trend styles in a classroom or salon setting.

COS 2030 - Intermediate II: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 230 This course covers accepted methods of styling hair, including: air forming, roller sets, iron sets, finger waves, braiding and hair pressing. Students will practice hairstyling techniques for client purposes in specialized classes or in a supervised salon setting.

COS 2040 - Intermediate II: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 240 This course covers theory of chemical texture and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Students will practice different wrapping techniques required by trend styles or per client request.

EST 2011 - Make-up for Skin Care Professionals

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): EST 1010.
Formerly EST 211 This course covers cosmetics and their functions for the skin care professional, including the importance of color theory, facial types and skin tones as they relate to facial makeup. Topics in this course include: Instruction from the basic makeup application, corrective makeup procedures, and disinfection and sanitation pertaining to all aspects of makeup.

NAT 1059 - Intermediate Manicuring/Pedicures/Artificial Nails II

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 159 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.

EST 2012 - Hair Removal

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): EST 1010.
Formerly EST 212 This course covers 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.

Second Fall (19 credits)

COS 2003 - Shampoo/Rinses/Conditioners II

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1003.
Formerly COS 203 This course covers theory and practical training in shampoos, rinses, and conditioners and examines advanced techniques to prepare the student for employment. Instruction includes preparation for the Colorado State Board Licensing Examination for shampoos, rinses, and conditioners.

COS 2010 - Intermediate II: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 210 This course covers theory and practical application of color products, formulations of color, level and shades of color. Students will practice haircoloring techniques in a specialized class or in a supervised salon setting.

COS 2020 - Intermediate II: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020.
Formerly COS 220 This course covers haircutting theory related to facial shapes, head and body forms to determine the techniques necessary for client's specified haircut and practical applications of haircutting techniques for various client requests.

COS 2011 - Advanced Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1011.
Formerly COS 211 This course covers advanced theory and practical techniques in haircoloring. Course covers the recognition of color problems and color correction procedures in preparation for the Colorado State Board Licensing Examination. Topics in this course include: advanced techniques, color formulation, and product knowledge.

COS 2021 - Advanced Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1021.
Formerly COS 221 This course covers advanced haircutting techniques utilizing multiple cutting tools and emphasizes current fashion trends and preparation for the Colorado State Licensure examination.

COS 2031 - Advanced Hair Styling

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1031.
Formerly COS 231 This course covers hairstyling theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon work and specialized classes. Students will prepare for the Colorado State Board Licensing Examination.

COS 2041 - Advanced Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1041.
Formerly COS 241 This course covers advanced techniques for chemical texture and current industry standards of practice to prepare the student for employment and the State Board Licensing Examination. Instruction is provided in specialized classes or supervised salon setting.

NAT 1058 - Intermediate Manicuring, Pedicures, and Artificial Nails

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 158 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 2008 - Advanced Manicuring/Pedicures/Artificial Nails

Credit(s): 4
Clinic Hour(s): 8

Formerly NAT 208 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.

EST 2010 - Advanced Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1011.
Formerly EST 210 This course covers advanced techniques for massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment and preparation for State Board Licensing Examination. Instruction is provided in specialized classes or in a supervised salon setting.

CIS: Cybersecurity Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 28

Certificate Requirements

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 133 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 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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 2056 - Vulnerability Assessment Level 1

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032 or CNG 2001
Formerly CNG 256 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.

Early Childhood Director Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The ECE program prepares you for a career in teaching children (birth to age 5). The program can also prepare you to become an Early Childhood Teacher or director in the field of Early Childhood Education.

Program Description

This program prepares you to become a productive, caring and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive and physical development. Classes also focus on cultural diversity among children. You will become familiar with theories concerning child development and ECE, and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Program Requirements

Entrance Requirements:

You should demonstrate an interest in the care and well-being of young children. You must also be free from evidence of illness – mental and physical – and free from personal conduct which may be injurious to children as stated in the Colorado Rules and Regulations for Child Care Centers, section 7.702.51.

You must meet with an ECE faculty advisor before registering for ECE courses.

Note: Students interested in transferring to a baccalaureate program in Early Childhood Education or Elementary Education should refer to the Transfer Degree section.

Total Credits: 30

Certificate Requirements

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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 1045 - Introduction to Early Childhood Techniques

Credit(s): 3
Lecture Hour(s): 1

Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 1031
Formerly ECE 102 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 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 2051 - Nutrition, Health and Safety

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 205 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 2621 - ECE Curriculum Development: Methods and Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 220 Explores planning and implementing effective early childhood curriculum for children, from birth through age eight years, including developmentally and culturally appropriate classroom environments, and written curriculum plans. The course also covers curricular content areas relevant to early childhood.

ECE 2381 - Ece Child Growth and Development

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 238 Provides an overview of growth, development, and learning of young children from birth through 12 years. The course includes the major theories of development as integrated in developmental domains and offers

opportunities to practice effective research and assessment methods to gather child development information. This course also includes practical applications of child development knowledge to responsive teaching practices.

ECE 2401 - Administration of Early Childhood Care and Education Programs

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 240 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 2411 - Administration: Human Relations for Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 241 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 2601 - The Exceptional Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 260 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.

Early Childhood Teacher Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The ECE program prepares you for a career in teaching children (birth to age 5). The program can also prepare you to become an Early Childhood Teacher or director in the field of Early Childhood Education.

Program Description

This program prepares you to become a productive, caring and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive and physical development. Classes also focus on cultural diversity among children. You will become familiar with theories concerning child development and ECE,

and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Program Requirements

Entrance Requirements:

You should demonstrate an interest in the care and well-being of young children. You must also be free from evidence of illness – mental and physical – and free from personal conduct which may be injurious to children as stated in the Colorado Rules and Regulations for Child Care Centers, section 7.702.51.

You must meet with an ECE faculty advisor before registering for ECE courses.

Note: Students interested in transferring to a baccalaureate program in Early Childhood Education or Elementary Education should refer to the Transfer Degree section.

Total Credits: 18

Certificate Requirements

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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 1045 - Introduction to Early Childhood Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 1031
Formerly ECE 102 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 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that

influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 2621 - ECE Curriculum Development: Methods and Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 220 Explores planning and implementing effective early childhood curriculum for children, from birth through age eight years, including developmentally and culturally appropriate classroom environments, and written curriculum plans. The course also covers curricular content areas relevant to early childhood.

ECE 2381 - Ece Child Growth and Development

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 238 Provides an overview of growth, development, and learning of young children from birth through 12 years. The course includes the major theories of development as integrated in developmental domains and offers opportunities to practice effective research and assessment methods to gather child development information. This course also includes practical applications of child development knowledge to responsive teaching practices.

Electromechanical Technology Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The AAS degree in Industrial Electronics Technology prepares you for a career as an electronics technician, an electromechanical technician, a semiconductor manufacturing technician or an electromechanical field service technician.

Program Description

This program develops essential skills for maintaining the complex electromechanical systems found in modern automated manufacturing facilities. After completing a core of courses in math, physics, fundamental analog and digital electronics, robotics and programmable logic controllers, you will branch off into one of two optional tracks. The electromechanical option emphasizes a broader range of skills, including print reading, motors and controls, and mechanical components. In addition to the two AAS degree options, several certificate options are also available.

Program Requirements

Entrance Requirements:

You should have good basic reading, language and math competencies. High school algebra and physics are recommended but not required. Refresher classes are available.

Total Credits: 29

Certificate Requirements

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

ELT 2252 - Motors and Controls

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 252 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 2357 - Sensors and Transducers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 257 Enables the student to study, construct, test and evaluate methods of testing and controlling

common industrial processes. Includes sensing systems, transducers, measurement techniques, systems interfacing, process control and data acquisition.

ELT 2358 - Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): (ELT 1206 or EIC 1201) AND ELT 2252
Formerly ELT 258 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 2089 - Capstone: Automated Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 289 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.

MAC 2056 - Industrial Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 256 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation, and maintenance of plant equipment. It includes safety, fit, threads, bearings, fasteners, hardware, lubricants, and assembly.

MTE 2320 - Fluid Power Control

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): MTE 1102 or Corequisite below
Corequisite(s): MAT 1140 or higher
Formerly MTE 238 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.

WEL 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

or

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

EMT Enhanced Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The EMS program prepares you for a career in the pre-hospital health care field as an emergency medical care provider at the EMT, EMT-Intermediate or Paramedic level. Career opportunities include providing patient care while working for an ambulance agency, fire service or hospital emergency room. Additional opportunities are in such areas as tactical EMS, critical care transport and ski patrol. If you graduate with an AAS degree you have additional opportunities in administration and management in the pre-hospital field.

Program Requirements

Entrance Requirements:

To enroll in all EMS programs, you msut be at least 18 years of age, have all current immunizations, pass a background check and a drug screen and be able to meet the requirements of the Functional EMS Job Description.

Total Credits: 18

Prerequisite Courses for Program Admission Credits: 18

Student must have a current Health Care Professional CPR card, successful completions of CCR 092, qualfiying assessment scores

Certificate Requirements

First Semester (12 credits)

EMS 1021 - EMT Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly EMS 121 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 1022 - EMT Medical Emergencies

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 122 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 1023 - EMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 123 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 1024 - EMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 124 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 1070 - EMT Clinical

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly EMS 170 Provides the EMT student with the clinical experience required for initial certification and some renewal processes.

Second Semester (6 credits)

HPR 1050 - Basic EKG Interpretation

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): EMT cert or higher, or department chair approval
Formerly HPR 190 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.

EMS 1132 - EMS Intravenous / Intraosseous Therapy

Credit(s): 2
Lecture Hour(s): .25
Vocational Lab Hour(s): 1.9
Clinic Hour(s): 1

Prerequisite(s): Current Colorado Certification as EMT or Department Chair Approval
Formerly EMS 132 Focuses on cognitive and skill practice for the Colorado scope of practice for the IV / IO endorsement as outlined in the Intravenous / Intraosseous Therapy and Medication Administration course curriculum.

EMS 1080 - EMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Formerly EMS 180 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.

Esthetician Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Cosmetology program prepares students for careers in cosmetology, hairstyling, esthetics (facial care) and manicure (nail care). Students will receive the specialized training necessary to be prepared for a successful career with limitless opportunities for both men and women. Students learn the skills to keep pace with the fashion world and stand ready to meet the constantly changing demands of one of today's largest-growing service industries. Those opportunities can provide both part-time and full-time employment in specialty areas.

Program Description

The Cosmetology program teaches students job entry skills, customer communication and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

- Esthetician certificate – This certificate program provides training in facial care.

Total Credits: 20

Certificate Requirements

Core Requirements (20 Credits)

COS 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

EST 1001 - Steril/Sani & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly EST 101 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 1060 - Introduction to Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly EST 160 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 1061 - Intermediate Disinfection, Sanitation & Safety

Credit(s): 3
Clinic Hour(s): 6

Formerly EST 161 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 1010 - Introduction to Skin Care

Credit(s): 3
Clinic Hour(s): 6

Formerly EST 110 This course covers the study of skin in both theory and practical applications for skin care professionals. Topics included in the course are: skin structure and function, massage manipulations while providing facials and the benefits derived from a proper facial, and good skin care routines. Training is conducted in a classroom or lab setting using manikins or models.

EST 1011 - Intermediate Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1010.
Formerly EST 111 This course covers skin care and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students will help patrons to select the proper skin care treatment(s). Practical and theory application can be done in specialized classes or supervised salon setting using models or customer service.

EST 2010 - Advanced Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1011.
Formerly EST 210 This course covers advanced techniques for massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment and preparation for State Board Licensing Examination. Instruction is provided in specialized classes or in a supervised salon setting.

EST 2011 - Make-up for Skin Care Professionals

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): EST 1010.
Formerly EST 211 This course covers cosmetics and their functions for the skin care professional, including the importance of color theory, facial types and skin tones as they relate to facial makeup. Topics in this course include: Instruction from the basic makeup application, corrective makeup procedures, and disinfection and sanitation pertaining to all aspects of makeup.

EST 2012 - Hair Removal

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): EST 1010.
Formerly EST 212 This course covers 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.

Fire Sci Structure Academy

Program Description

See list of Department Chairs on the Personnel page.

The Fire Science Technology is an Associate of Applied Science (AAS) degree designed to meet the needs of fire protection and safety personnel. The program will prepare you for a career in fire science or a related field. Courses are

offered through traditional classroom instruction, independent study, and hands on training in conjunction with local fire departments.

Career Information

The Fire Science Technology program prepares students for entry level positions in the fire service industry.

Total Credits: Variable

Basic Fire Science (9 credits)

FST 1002 - Principles/Emergency Services

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 102 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 1003 - Fire Behavior & Combustion

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 103 Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FST 1009 - Occupational Safety & Health

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 109 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.

Fire Investigator I (9 credits)

FST 1003 - Fire Behavior & Combustion

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 103 Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FST 2005 - Fire Investigation I

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 205 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 2052 - Fire Investigation II

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 252 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.

Firefighter I (12 credits)

FST 1000 - Firefighter I

Credit(s): 9
Lecture Hour(s): 6
Vocational Lab Hour(s): 4.50
Formerly FST 100 Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard.

FST 1007 - Hazardous Materials Operations (Level I)

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 107 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.

Vehicle Extrication (3 credits)

FST 1026 - Vehicle Extrication Awareness Level

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly FST 126 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 1027 - Vehicle Extrication Operations Level

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly FST 127 Expands and refines the objectives of FST 1026. 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.

Fire Officer I (12 credits)

FST 2001 - Instructional Methodology

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 201 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 2006 - Fire Co Superv and Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 206 Addresses the requisite knowledge and skills required to perform at level 1 as identified in National Fire Protection Association (NFPA) 1021, Fire Officer Professional Qualifications. Areas of focus include: fire department organization, company officer traits, roles and responsibilities, communications practices, administrative functions, safety, health and wellness, training, fire prevention, human resources management, and incident management and operations. The course prepares the learner for the Colorado Fire Officer I State Exams and JPR evaluations.

FST 2053 - NIMS

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FST 2002.
Formerly FST 253 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 2055 - Fire Service Management

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 255 Serves as the basic management course for present and potential members of the fire and emergency service professions. The course introduces the student to current fire service management practices, challenges, and real-world applications from the fire officers point of view. The course addresses decision-making, problem solving, necessary communication skills, conflict resolution, effective leadership skills, as well as the role of the fire service manager in supervising personnel and programs.

Basic Firefighter - Structural (Fire Academy) (16 credits)

FST 1008 - Firefighter Professional Preparation

Credit(s): 1
Lecture Hour(s): 1
Formerly FST 108 Articulates strategies for creating success in a career as a Firefighter. This course discusses

requirements in professionalism, emergency response in a multicultural environment, the psychological rigors and stressors typical of the vocation, and use of potential resources to attain career goals and plans.

FST 1000 - Firefighter I

Credit(s): 9
Lecture Hour(s): 6
Vocational Lab Hour(s): 4.50
Formerly FST 100 Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard.

FST 1007 - Hazardous Materials Operations (Level I)

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 107 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 1060 - Candidate Physical Abilities Test Prep

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly FST 160 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.

Fire Prevention & Public Education (14 credits)

FST 1006 - Fire Prevention

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 106 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 1050 - Introduction to Fire Prevention Education

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 150 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 2004 - Principles of Code Enforcement

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 204 Provides the students with the fundamental knowledge of the role of code enforcement in a comprehensive fire prevention program.

FST 2008 - Fire Plans Review and Acceptance Testing

Credit(s): 2
Lecture Hour(s): 2
Formerly FST 208 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 2009 - Fire Protection Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 209 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.

Fitter or Combination Welder Certificate

See list of Department Chairs on the Personnel page.

Program Description

Welders must be highly skilled and knowledgeable in a variety of welding processes to meet the challenges of advanced technology and new materials. Welding is not just a trade; it's a tool for many trades requiring a high level of training and technical knowledge. The Welding Technology program helps students develop skills through classroom studies and hands-on experience under close supervised instruction. Students learn about structural steel fabrication, layout work and pipe welding following detailed blueprints.

Total Credits: 20

Certificate Requirements

Core Requirements (20 Credits)

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

WEL 1025 - Introduction to Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024.
Formerly WEL 125 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 2024 - Gas Tungsten Arc Welding II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Prerequisite(s): WEL 1024, WEL 1025.
Formerly WEL 224 Covers Gas Tungsten Arc Welding (GTAW) operations utilizing a variety of base metals and advanced joint designs.

WEL 2025 - Advanced Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024, WEL 1025.
Formerly WEL 225 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 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

Forensic Computing Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 23

Certificate Requirements

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 133 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 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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 2058 - Digital Forensics

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): CNG 1032
Formerly CNG 258 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.

Hairstylist Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Cosmetology program prepares students for careers in cosmetology, hairstyling, esthetics (facial care) and manicure (nail care). Students will receive the specialized training necessary to be prepared for a successful career with limitless opportunities for both men and women. Students learn the skills to keep pace with the fashion world and stand ready to meet the constantly changing demands of one of today's largest-growing service industries. Those opportunities can provide both part-time and full-time employment in specialty areas.

Program Description

The Cosmetology program teaches students job entry skills, customer communication and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

- Hairstylist certificate – This certificate program provides training in hair care. Instruction is provided in hair cutting, hair styling, hair coloring and chemical textures services.

Total Credits: 40

Certificate Requirements

Core Requirements (40 Credits)

COS 1003 - Shampoo/Rinses/Conditioners I

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 103 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 1010 - Introduction to Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 110 Introduces theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. This course covers basic application techniques and procedures for the application of haircolor.

COS 1011 - Intermediate: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 111 Expands on haircoloring theory and practical application of color products, formulations of color, level and shades of color. Students will learn application techniques in a specialized class or in a supervised salon setting.

COS 1020 - Introduction to Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 120 Introduces haircutting theory relevant to patron protection, angles, elevations, and the analysis of hair textures as related to hair cutting procedures. This course covers proper use and care of hair cutting implements, basic hair cutting techniques using various cutting implements, and disinfection and sanitation procedures as they relate to haircutting.

COS 1021 - Intermediate I: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020
Formerly COS 121 Expands on basic haircutting theory incorporating facial shapes, head and body forms to determine the appropriate techniques required to complete a client haircut. Students will apply hair cutting techniques in specialized classes or in the supervised salon.

COS 1030 - Introduction to Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 130 Combines theory with the practical application of hairstyling. This course covers roller placement, hair molding and shaping, pin curls, finger waves, comb-out techniques, air forming, thermal straightening, or curling for short to long hair.

COS 1031 - Intermediate I: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 131 This course covers the accepted methods of styling hair, air forming, roller sets, finger waves, pin curls, braiding, and hair pressing.

COS 1040 - Introduction to Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 140 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 1041 - Intermediate I: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 141 Emphasizes theory and practical application of chemical texture, including permanent waves and chemical relaxers, in a supervised salon setting. Students will practice different wrapping techniques required by trend styles in a classroom or salon setting.

COS 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 1060 - Introduction to Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 160 This course covers various methods of sanitation, disinfection; and principles of workplace safety, infection control and prevention. Topics presented in this course include: classroom study of bacteriology, chemistry of cleaning versus disinfecting products that are used in the cosmetology industry, and terminology dealing with infection control.

COS 1061 - Intermediate I: Disinfection, Sanitation & Safety

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 161 This course focuses on the theory and daily practice of proper methods of disinfection, sanitation and safety procedures as related to all phases of cosmetology. Topics presented in this course include: terminology and training of disinfection, sanitation and safety procedures, and customer service in a supervised salon setting or specialized class.

COS 2003 - Shampoo/Rinses/Conditioners II

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1003.
Formerly COS 203 This course covers theory and practical training in shampoos, rinses, and conditioners and examines advanced techniques to prepare the student for employment. Instruction includes preparation for the Colorado State Board Licensing Examination for shampoos, rinses, and conditioners.

COS 2010 - Intermediate II: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 210 This course covers theory and practical application of color products, formulations of color, level and shades of color. Students will practice haircoloring techniques in a specialized class or in a supervised salon setting.

COS 2011 - Advanced Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1011.
Formerly COS 211 This course covers advanced theory and practical techniques in haircoloring. Course covers the recognition of color problems and color correction procedures in preparation for the Colorado State Board Licensing Examination. Topics in this course include: advanced techniques, color formulation, and product knowledge.

COS 2020 - Intermediate II: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020.
Formerly COS 220 This course covers haircutting theory related to facial shapes, head and body forms to determine the techniques necessary for client's specified haircut and practical applications of haircutting techniques for various client requests.

COS 2021 - Advanced Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1021.
Formerly COS 221 This course covers advanced haircutting techniques utilizing multiple cutting tools and emphasizes current fashion trends and preparation for the Colorado State Licensure examination.

COS 2030 - Intermediate II: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 230 This course covers accepted methods of styling hair, including: air forming, roller sets, iron sets, finger waves, braiding and hair pressing. Students will practice hairstyling techniques for client purposes in specialized classes or in a supervised salon setting.

COS 2031 - Advanced Hair Styling

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1031.
Formerly COS 231 This course covers hairstyling theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon work and specialized classes. Students will prepare for the Colorado State Board Licensing Examination.

COS 2040 - Intermediate II: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 240 This course covers theory of chemical texture and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Students will practice different wrapping techniques required by trend styles or per client request.

COS 2041 - Advanced Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1041.
Formerly COS 241 This course covers advanced techniques for chemical texture and current industry standards of practice to prepare the student for employment and the State Board Licensing Examination. Instruction is provided in specialized classes or supervised salon setting.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

COS 2060 - Intermediate II: Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 260 This course covers infection control theory and practice of proper methods of sterilization, disinfection, sanitation, and safety procedures as related to all phases of the industry. Topics for this course include: terminology and training of disinfection, sanitation, and safety procedures. The individual's responsibility to provide a safe work environment is practiced.

COS 2061 - Advanced Disinfection, Sanitation & Safety

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1061.
Formerly COS 261 This course covers advanced training on decontamination and safety practices in a supervised salon and/or classroom setting and primarily focuses on student preparation for the Colorado State Board Licensing Examination in decontamination and safety for all aspects of the industry. Topics for this course include: Occupational Safety and Health Administration (OSHA) requirements for schools and salons.

COS 2062 - Advanced II: Disinfection, Sanitation & Safety

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): COS 2060.
Formerly COS 262 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.

Health Info Technology (HIT)

See list of Department Chairs on the Personnel page.

Program Description

This certificate bridges the gap that can exist between healthcare providers and practitioners of different disciplines, such as accounting and cybersecurity. It is of utmost importance to understand and appreciate the singular pressures and needs when entering healthcare to provide the special skills and expertise of ancillary professions. It is a must for the professional who wishes to serve with excellence to understand the reasons and regulations of healthcare.

The Health Info Technology (HIT) Certificate is designed for

- Students who would like to learn more about the health information field
- Professionals and students of all disciplines who would like to practice within the administrative side of healthcare
    - Accounting
    - Finance
    - Human Resources
    - Business Intelligence
    - Data Analytics
    - Computer Information Systems
    - Cyber Security
    - Nutrition
    - and just about all other professions!

Total Credits: 18

Core Curriculum Requirements

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 102 Introduces medical vocabulary through the study or word structures and phrases. Reinforcement is provided through writing narratives and examining medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis will be on learning to read, pronunciation and interpretation of medical documentation . The importance of HIPAA is illustrated, in both physical and electronic dissemination of medical records.

HIT 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 111 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 1012 - Legal Aspects for Health Records

Credit(s): 2
Lecture Hour(s): 2

Formerly HIT 112 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 1020 - Working with Health IT Systems

Credit(s): 4
Lecture Hour(s): 4
Formerly HIT 120 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 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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 2022 - Quality Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 222 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: Medical Coding

See list of Department Chairs on the Personnel page.

Program Description

Health Information Technology (HIT) combines the study of healthcare and information technology and provides a solid foundation for employment throughout the revenue cycle (from patients' scheduling of the first appointment to the time the bill is paid in full).

Students in the Medical Coding certificate program are prepared to sit for professional medical coding credentialing exams offered by the American Health Information Management Association (AHIMA):

- Certified Coding Associate (CCA), or
- Certified Coding Specialist (CCS)

This certification makes students employable in entry-level or mid-level positions as certified coders in various settings, including:

- Acute-care hospitals

- Ambulatory care facilities
- Long-term or skilled-care nursing facilities
- Physician offices
- Insurance companies
- Other environments utilizing medical coding and health information skills

Opportunities for Specialization

The demand for specialization in coding and coding management is increasing, enabling coding professionals to:

- Narrow or broaden their scope of practice
- Explore innovative roles such as:
    - Clinical data specialist
    - Medical records reviewer
    - Medical records field technician
    - Remote medical coder
    - Reimbursement specialist
    - Coding auditor
    - Various registry roles

Benefits of the Affiliation with AHIMA

- Access to the leading source of HI knowledge
- Accreditation by the AHIMA Professional Certificate Approval Program (PCAP)

Total Credits: 42

HIT Medical Coding - AHIMA Accredited Certified Coding Associate (42 credits)

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 102 Introduces medical vocabulary through the study or word structures and phrases. Reinforcement is provided through writing narratives and examining medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis will be on learning to read, pronunciation and interpretation of medical documentation . The importance of HIPAA is illustrated, in both physical and electronic dissemination of medical records.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

HIT 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 111 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 2020 - ICD Coding I

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032
Formerly HIT 220 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 2041 - CPT Coding Basic Principles

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032.
Formerly HIT 241 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 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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.

HPR 1032 - Disease Process and Treatment

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): BIO 1006

Formerly HPR 232 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 2061 - Healthcare Software

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 261 This course covers basic computer system architecture, file structure, and design for health care 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 2052 - ICD Coding II for Certification

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020, HIT 2041
Formerly HIT 252 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 1005 - Principles of Healthcare Reimbursement

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020 and HIT 2041
Formerly HIT 105 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 1088 - Health Information Practicum I

Credit(s): 2
Practicum Hour(s): 4
Prerequisite(s): HIT 2052 or Department Chair Approval
Formerly HIT 188 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 2068 - Certification Test Preparation

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Department Chair Approval.
Formerly HIT 268 Prepares students who have made the decision to obtain a national health information technology credential by completing national credentialing exams.

HIT 1089 - Practicum

Credit(s): 3
Practicum Hour(s): 9
Prerequisite(s): Department chair approval
Provides an opportunity to gain practical experience in applying skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Industrial Technology Maintenance Level I Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Industrial Technology Maintenance Level one Certificate provides foundational skills. Students may start as an entry level operator and are encouraged to obtain the Level Two Certificate and the degree to pursue careers as an electronics technician, an electro-mechanical technician, a semiconductor manufacturing technician, or an electro-mechanical field service technician.

Total Credits: 31

Certificate Requirements

Fall Semester (15 Credits)

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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.

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

MAC 2056 - Industrial Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 256 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation, and maintenance of plant equipment. It includes safety, fit, threads, bearings, fasteners, hardware, lubricants, and assembly.

Spring Semester (16 Credits)

ELT 2252 - Motors and Controls

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 252 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 2254 - Industrial Wiring

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 254 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 2358 - Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): (ELT 1206 or EIC 1201) AND ELT 2252
Formerly ELT 258 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.

MAC 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 2065 - Mechanical Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 265 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation and maintenance of plant equipment. It includes keys, keyways, belts, chains and drives, gears and drives, seals, shafts, and coupling alignment.

Introduction to Agriculture

Please see list of Department Chairs on the Personnel page.

A general program that focuses on modern business and economic principles involved in the organization, operation, and management of agricultural enterprises.

Total Credits: 9

Core Curriculum Requirements (9 credits)

AGB 1002 - Foundations of Agri-Business

Credit(s): 3
Lecture Hour(s): 3
Formerly AGB 102 Focuses on the foundational aspects of the primary agriculture business areas including economics, management, marketing, sales, and finance in an applied manner. Current events in agriculture are discussed with emphasis on application to agribusiness.

ASC 1100 - Animal Sciences

Credit(s): 3
Lecture Hour(s): 3
Formerly ASC 100 Covers the basic fundamentals of livestock production including the principles of nutrition, reproduction, breeding, genetics, health, and physiology of cattle, sheep, swine, horses, and other farm species. Trends and issues in animal science and animal agriculture are also discussed in this course.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

Introduction to Design Technology

See list of Department Chairs on the Personnel page.

Program Description

This certificate introduces the student to basic design skills. They can choose courses specific to Architectural Design or Manufacturing Design.

Core Requirements (6-7 credits)

AEC 1231 - Residential Construction Drawing

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly AEC 102 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 1200 - Print Reading Residential/Commercial

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly AEC 107 Interpret construction prints and the related documents produced by the residential or commercial architect and used in the construction industry.

OR

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

MAC 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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.

Law Enforcement Academy Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Law Enforcement program prepares students for careers in law enforcement as a police officers, desk officer, bailiff or corrections officer. Additionally, students could work as criminal investigators, detectives, police agencies, or in correction and judicial facilities.

Program Description

The Law Enforcement program teaches students an in-depth analysis of the three (3) components of the criminal justice system (law enforcement, the judicial system and corrections) with special emphasis on criminology, substantive criminal law, procedural criminal law and constitutional law. It places a strong emphasis on reading and comprehension skills, written and verbal communication skills and empathetic awareness of cultural diversity.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption to complete the Criminal Justice courses. Admission into the Law Enforcement Academy courses requires a student to file an application with the PLEA Department Chair and meet specific guidelines prior to admission into the program (such as state statutory requirements for background checks). You may enroll in PLEA courses only if you are admitted into the program.

Total Credits: 37

Certificate Requirements

LEA 1001 - Basic Police Academy I

Credit(s): 6
Lecture Hour(s): 6
Formerly LEA 101 Conforms to POST (Peace Officer standards and Training) standards and Colorado 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 both a lecture and laboratory mode of learning.

LEA 1002 - Basic Police Academy II

Credit(s): 12
Lecture Hour(s): 12
Formerly LEA 102 Conforms to POST (Peace Officer Standards and Training) 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 1003 - Basic Law Enforcement Academy III

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly LEA 103 Enhances the standards established by the Colorado P.O.S.T. Board and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a Police Officer. Emphasis will be on expanding the Colorado P.O.S.T. curriculum to create a unique learning experience.

LEA 1005 - Basic Law

Credit(s): 8
Lecture Hour(s): 8
Formerly LEA 105 Conforms to the Colorado POST (Peace Officer Standards and Training) 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 1006 - Arrest Control Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 106 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace office. Exploration of the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Explains the continuum of force and de-escalation of force.

LEA 1007 - Law Enforcement Driving

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 107 Exploration of 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 1008 - Firearms

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3

Formerly LEA 108 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. 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 be able to explain the firearms role within the continuum of force.

Library Technician Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The LTN program prepares you for a career in a variety of information environments including academic libraries, public libraries, school media centers, special libraries – corporate, correctional, law and medical – and other information services. In rural settings, the Library/Media Technician manages the library/media center and is the person responsible for providing additional library services, such as maintaining the computerized catalog and library webpage, conducting patron orientation and directing library programs.

Program Description

This program offers instruction in a variety of library functions including collection management (selecting and acquiring materials); cataloging; processing and repair of library materials; circulating and shelving materials; helping patrons with reference, readers' advisory and resource sharing services; and managing a small library or media center. We also train you in the nontechnical skills you need to be a successful library technician: customer service, listening, speaking, writing, attention to detail and working as a member of a team.

Program Requirements

Entrance Requirements:

The LTN program is designed for the student who, because of time or distance constraints, is looking for an online degree. The courses use the Desire2Learn platform.

If you plan to transfer to a bachelor's level program, consult with your advisor to determine the transferability of courses.

Total Credits: 30

Certificate Requirements

General Education Requirements (12 Credits)

- Social and Behavioral Sciences OR Humanities **Credit(s): 3**

Communications (6 Credits)

Select one:

- (ENG 1021 and COM 1150) or COM 1250

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Mathematics (3 Credits)

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

Core Curriculum Requirements (18 Credits)

LTN 1001 - Introduction to Library Services

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 101 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 1010 - Selection and Acquisitions

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 110 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 1015 - Library Circulation

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 115 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 2005 - Introduction to Cataloging & Classification

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 205 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 2010 - Reference Materials

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 210 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 2020 - Library/Media Center Management & Public Relations

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 220 Includes budget preparation, how to work with staff, the public, and administrators, and the use of statistics.

Machining Technology, Inspection Certificate

See list of Department Chairs on the Personnel page.

Total Credits: 9

Certificate Requirements

MAC 2050 - Advanced Inspection Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly MAC 250 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 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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.

EGT 2305 - Geometric Dimension & Tolerance

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CAD 1100 or MAC 1002 or EGT 1101
Formerly EGT 205 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.

Manual Machining Certificate

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 16

Certificate Requirements

MAC 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 1030 - Conventional Lathe Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 130 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 1031 - Milling Machines & Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 131 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 1041 - Advanced Machining Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 141 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 stressed and students will be required to produce parts manufactured by local manufacturing companies with the consideration of ISO quality standards.

Medical Assistant Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Medical Assistant Program will prepare the student to primarily work in the back office of a medical practice, along with some basic front office duties. Students will be taught the clinical tasks of drawing blood, giving injections, performing lab tests, take patient history, and measuring vital signs. The administrative tasks include: scheduling appointments, code medical information, and financial bookkeeping. Students will serve an internship and prepare for a national certification exam to become a Registered Medical Assistant.

Total Credits: 30

Semester 1 Fall: 17

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

MAP 1010 - Medical Office Administration

Credit(s): 4
Lecture Hour(s): 4
Formerly MAP 110 Introduces the administrative duties specifically used in medical offices.

MOT 1025 - Basic Medical Sciences I

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 125 Introduces the anatomy, 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 to the medical office technology personnel.

MOT 1026 - Basic Medical Sciences II

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 133 Introduces the anatomy, physiology, pathophysiology, and drug therapy of the cardiovascular, respiratory, integumentary, and senses systems. The scope of the material is limited for the medical office technology personnel.

MOT 1027 - Basic Medical Sciences III

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 135 Introduces the anatomy, physiology, pathophysiology, and drug therapy of the renal, reproductive, neurological, and endocrine systems. The scope of material is limited for the medical office technology personnel.

MAP 1050 - Pharmacology for Medical Assistants

Credit(s): 3
Lecture Hour(s): 3
Formerly MAP 150 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.

Semester 2 Spring: 13

MAP 2038 - Medical Assisting Laboratory

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 4
Prerequisite(s): Department Chair Approval.
Formerly MAP 138 Introduces basic, routine laboratory skills and techniques for collection, handling, and examination of laboratory specimens often encountered in the ambulatory care setting.

MAP 2040 - Medical Assisting Clinical Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 4
Prerequisite(s): Department Chair Approval.
Formerly MAP 140 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 1083 - Medical Assistant Internship

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): Department Chair Approval.
Formerly MAP 183 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.

MAP 2069 - Review for Medical Assistant National Exam

Credit(s): 1
Lecture Hour(s): 1
Formerly MAP 189 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.

Mental Health Aide

See list of Department Chairs on the Personnel page.

Program Description

The Mental Health Aide certificate is an option for those who are interested in human behavior, especially in clinical or health-related settings. During the program, students will study behavioral health concepts related to addiction and substance abuse, counseling, and group dynamics. The courses for this certificate may be applied towards the Behavioral Health Addiction Recovery AAS degree. If you wish to pursue a bachelor's degree after earning your AAS, you can take advantage of a smooth transfer to UCCS for a BA in Human Services or CSU Pueblo for a BAS in Health Science and Administration.

Career Information

A Mental Health Aide is a professional who works with people who have disabilities or problems with behavioral and learning impairments, in a variety of settings, including but not limited to hospitals, and correctional, residential, and outpatient facilities.

Total credits: 17

HPR 1000 - Introduction to Health

Credit(s): 3
Lecture Hour(s): 3
Formerly HPR 100 Provides foundational knowledge and skills necessary for careers in health care. This course covers basic health skills such as vital signs, hand washing, and Cardiopulmonary Resuscitation (CPR).

BEH 2030 - Applied Therapeutic Communication Skills

Credit(s): 3
Lecture Hour(s): 3
Provides effective communication techniques in behavioral health settings to forge meaningful connections with clients and provide support and guidance on their journey towards improved mental health and well-being. The course focuses on establishing rapport, demonstrating empathy, and facilitation of meaningful dialogues with clients across diverse populations, settings, and presenting concerns through experiential learning and self-reflection.

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

CSL 2046 - Ethical Practice in Addiction Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 245 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 course covers the Colorado Mental Health Practice Act and introduce the regulatory system and the role of Departmental of Regulatory Agencies (DORA) and Division of Behavioral Health (DBH) in the development and credentialing of the addiction counselor. Emphasis on developing

ethical decision-making skills, knowledge of confidentiality and the prohibited activities in the Mental Health Practice Act become familiar with the National Association for Alcoholism and Drug Abuse Counselors (NAADAC) Code of Ethics and acquire the tools for ethical and legal practice.

CSL 2068 - Addictions Counseling Skills

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 268 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 2065 - Culturally Informed Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 265 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 2050 - Motivational Interviewing I

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 250 Provides the opportunity for students to learn both the model of Motivational Interviewing as well as the underlying Stages of Development model. Discussion of the populations of clients where these models have proven most effective will be discussed. Student opportunity for skills practice during class that includes skill sets specific to each stage of client readiness will be used. Presentation of assessment instruments to evaluate client readiness for change.

CSL 2054 - Trauma Informed Care

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 254 Covers the concept of trauma?informed care, an approach being adopted within human services based upon an increased awareness of the ways trauma impacts functioning. Course will define what trauma informed care is and ways a traditional treatment setting can be modified to increase the sense of safety experienced by clients. Participants will learn how to incorporate trauma?informed practices into treatment with diverse populations, such as military veterans, women, and people with co?occurring disorders.

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2

Formerly HPR 106 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.

1 Indicates guaranteed transfer course (GT)

2 Indicates program core courses

3 Requires department approval

4 CAT courses

MGD Video Production

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 18

Certificate Requirements

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications,

conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

MGD 2064 - Digital Video Editing II

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): MGD 1064
Formerly MGD 264 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.

RTV 1002 - Beginning Television

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly RTV 102 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, preproduction, and post production.

RTV 1005 - Basic Video Production

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): RTV 1002.
Formerly RTV 208 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.

Nail Technician

See list of Department Chairs on the Personnel page.

Career Opportunities

The Cosmetology program prepares students for careers in cosmetology, hairstyling, esthetics (facial care) and manicure (nail care). Students will receive the specialized training necessary to be prepared for a successful career with limitless opportunities for both men and women. Students learn the skills to keep pace with the fashion world and stand

ready to meet the constantly changing demands of one of today's largest-growing service industries. Those opportunities can provide both part-time and full-time employment in specialty areas.

Program Description

The Cosmetology program teaches students job entry skills, customer communication and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

- Manicurist certificate – This certificate program provides training in nail care. Instruction is provided in manicuring, pedicure, nail design extensions and nail artistry.

Total Credits: 20

Certificate Requirements

Core Requirements (20 Credits)

COS 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

NAT 1008 - Introduction to Manicures, Pedicures, and Artificial Nails

Credit(s): 3
Clinic Hour(s): 6

Formerly NAT 108 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 1010 - Introduction to Nail Care

Credit(s): 3
Clinic Hour(s): 6

Formerly NAT 110 This course covers 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 1011 - Intermediate I Nail Care

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 111 This course covers 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 aspects of manicures, pedicures, and nail art is taught.

NAT 1058 - Intermediate Manicuring, Pedicures, and Artificial Nails

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 158 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 1059 - Intermediate Manicuring/Pedicures/Artificial Nails II

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 159 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 2008 - Advanced Manicuring/Pedicures/Artificial Nails

Credit(s): 4
Clinic Hour(s): 8

Formerly NAT 208 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 2010 - Advanced Nail Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): NAT 2011.
Formerly NAT 210 This course covers advanced theory and practical application dealing with different types of manicures, pedicures, massage techniques, and nail art. Topics included in this course are: practical application of procedures, products, nails shapes and maintenance of the natural nails. Course will cover client education on 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.

Office Professional

See list of Department Chairs on the Personnel page.

Program Description

Prepares students for a career as an office professional in a variety of fields and industries. You will learn state-of-the-art technology, develop computerized or payroll skills, learn top-notch interpersonal (or group) communication skills and/or human resource management skills, develop a strong business understanding and report writing skills, and learn to solve problems creatively. As a student preparing to enter the workforce, there is the opportunity to gain relevant experience through internships or enhance your knowledge of personal finance.

Total Credits: 24

Certificate Requirements

ACC 1025 - Computerized Accounting

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 125 Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

OR

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)

Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

BTE 2087 - Cooperative Education/Internship

Credit(s): 0.50-6
Cooperative Education Hour(s): 0.75-9
Formerly BTE 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OR

BUS 1016 - Personal Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 116 Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

OR

MAN 2000 - Human Resource Management I

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 200 Provides an overview of the contemporary issues, theories, and principles used to effectively manage human resources. Topics covered include job analysis and design, talent acquisition and retention, planning and recruiting human resources, selecting employees, job placement, employee training and performance management, selecting employees, compensation and benefits, and retaining employees.

COM 2220 - Group Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 217 Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Paramedic Option Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The EMS program prepares you for a career in the pre-hospital health care field as an emergency medical care provider at the EMT, Advanced EMT or Paramedic level. Career opportunities include providing patient care while working for an ambulance agency, fire service, hospital or other health care facility. Additional opportunities are in such areas as tactical EMS, critical care transport and ski patrol. If you graduate with an AAS degree you have additional opportunities in administration and management in the pre-hospital field. PCC also offers a Bachelor's degree in Advanced Paramedic Practice to advance your scope into critical care and community paramedic.

Program Description

This program teaches you the knowledge and skills needed for scene management, emergency patient care and transport. This includes scene safety, patient assessment and treatment, medication administration, documentation and patient transport. Upon successful completion of the program, you may take the National Registry exam and, upon passing the exam, you may apply for Colorado State Certification at your level of training.

Program Requirements

Entrance Requirements:

To enroll in the EMT, AEMT or Paramedic programs, you must be at least 18 years of age, have all current immunizations and be able to meet the requirements of the PCC EMS Common Functional Abilities Standard. For enrollment into the Paramedic programs, you must have a current Colorado EMT certification, an EMT IV endorsement, successfully complete all prescreening examinations and prerequisites, and obtain department approval for enrollment into these programs.

The EMS Department is offering an EMT-Intermediate to Paramedic Bridge course for those who are EMT-Intermediates. To qualify for this program you must be an EMT-I99, be eligible for state certification, and pass an EMT-I prescreening exam. For more information on prerequisites and classes, please call the EMS Department.

Total Credits: 49

Certificate Requirements

General Education Requirements (4 Credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Core Curriculum Requirements

EMS 2025 - Fundamentals of Paramedic Practice

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): BIO 1006 or BIO 2102
Formerly EMS 225 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 2026 - Fundamentals of Paramedic Practice - Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 226 Teaches the skills necessary for the paramedic to apply professional behavior, medical ethics, legal issues, patient assessment, therapeutic communication, clinical decision making, and airway management. Serves as the companion course to Fundamentals of Paramedic Practice.

EMS 2027 - Paramedic Special Considerations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 2025
Formerly EMS 227 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 2028 - Paramedic Special Considerations Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 228 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 2029 - Paramedic Pharmacology

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 2025
Formerly EMS 229 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 2030 - Paramedic Pharmacology Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 230 Teaches the skills necessary for the paramedic to safely and effectively administer emergency medications. Serves as the companion course to Paramedic Pharmacology.

EMS 2031 - Paramedic Cardiology

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): EMS 2025
Formerly EMS 231 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 2032 - Paramedic Cardiology Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 232 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 2033 - Paramedic Medical Emergencies

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): EMS 2025
Formerly EMS 233 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 2034 - Paramedic Medical Emergencies Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 234 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 2035 - Paramedic Trauma Emergencies

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101, current Colorado Certification as an EMT with IV endorsement or higher and acceptance into the Paramedic Education Program.
Formerly EMS 235 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 2036 - Paramedic Trauma Emergencies Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 236 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 2037 - Paramedic Internship Preparatory

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 2025
Formerly EMS 237 Reviews concepts and techniques used in the prehospital setting.

EMS 2080 - Paramedic Internship I

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): EMS 2025
Formerly EMS 280 Serves as the preceptor/internship program for paramedic students.

EMS 2081 - Paramedic Internship II

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): EMS 2025
Formerly EMS 281 Serves as the continuation of EMS 280, preceptor program for paramedic students.

Paramedic Prep

See list of Department Chairs on the Personnel page.

This program prepares students with the knowledge and skills needed for scene management, emergency patient care and transport. This includes scene safety, patient assessment and treatment, medication administration, documentation and patient transport. Upon successful completion of the program, students take the National Registry exam, and upon passing the exam, you may apply for Colorado State Certification at your level of training.

The Emergency Medical Services (EMS) program has a selective admissions process. The program application and requirements are available in the Health & Public Safety office or at Pueblo Community College EMT. All Health & Public Safety programs have essential functions you must be able to perform for you to be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for certification exams.

Prerequisites for Program Admissions

Student must hold a current EMT certification in Colorado. Student must have a Health Care Professional CPR card and successfully completed CCR 092 or qualifying assessment scores. If you hold a current state EMT certification the BIO 111 prerequisite to BIO 201/202 can be waived.

Total Credits: 18

General Education Courses (8 credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Program Schedule (10 credits)

EMS 1125 - AEMT Fundamentals

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): College readiness in English

Formerly EMS 131 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 1127 - AEMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 1125
Formerly EMS 127 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 1133 - AEMT Medical Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 133 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 1135 - AEMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 135 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 1071 - AEMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): EMS 1125
Formerly EMS 171 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.

Pharmacy Technician Certificate

See list of Department Chairs on the Personnel page.

Program Description

Pharmacy Technician (PHT) certificate program is a two-semester program and is financial aid eligible. It provides instruction in basic pharmacy theories and is an important step toward national certification as a pharmacy technician. Learning experiences include lecture, lab, and clinical exposure in local pharmacies. To ensure success in this program, you should have a good knowledge of basic algebra and math formulas.

The PHT program has a selective admissions process. The program application is online and posted at Pueblo Community College PHT May 1 to July 30. All Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

This program prepares you to work in a pharmacy setting under the supervision of a licensed pharmacist that do not require the professional judgement of a pharmacist.

Total Credits: 25

Fall (13 credits)

PHT 1011 - Introduction to Pharmacy

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PHT 111 Introduces the practice of pharmacy and the work that pharmacy technicians perform. The course provides an overview of careers within the field; educational, certification and accreditation requirements; ethical and legal responsibilities; pharmacology; as well as a variety of issues that touch on attitudes, values and beliefs of successful pharmacy technicians.

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration.

It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

PHT 1014 - Computer Skills for Pharmacy Technicians

Credit(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): College Readiness in English
Formerly PHT 114 Introduces basic pharmacy and computer terminology and applications of a pharmacy management system. Focuses on the practice of pharmacy and the multiple operations that contribute to safe and effective patient care, and discusses the roles and responsibilities of pharmacists and pharmacy technicians in computer-based systems. This course includes integration of an actual pharmacy operation application to allow hands-on technical experience.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

PHT 1013 - Communication and Professionalism for Pharmacy Technicians

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): College Readiness in English
Formerly PHT 113 Provides fundamental components of theoretical and applied aspects of personal and interpersonal communication related to pharmacy practice. Theoretical aspects include such topics as communication perceptions and barriers, listening, responding, assertiveness and non-verbal communication. Applied aspects include such techniques as role-playing, group discussion and interviewing. This course also examines the methods and practice of interviewing with respect to the roles and functions of both interviewee and interviewer.

PHT 1015 - Pharmacology I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PHT 115 Presents the fundamentals of pharmacology, the pharmacokinetic phases, and the basic concepts of normal body function. this course examines diseases which impact the various body systems and the drugs used to treat such diseases, emphasizing disease state management and drug therapy.

Spring (13 credits)

PHT 1035 - Pharmaceutical Calculations and Compounding Techniques

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 2
Prerequisite(s): College readiness in Quantitative Literacy Math
Formerly PHT 235 Develops the skills necessary to perform calculations essential to the duties of pharmacy technicians

in a variety of contemporary settings. This course also applies these skills in hands-on compounding of pharmaceutical products emphasizing the importance of accuracy, quality and infection control.

PHT 1012 - Pharmacy Law and Ethics

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to program.
Formerly PHT 112 Introduces the laws, regulations and agencies that pertain to pharmacy practice and the role that technicians play to ensure compliance. Establishes a foundation of ethical behavior and decision making and discusses the consequences of violating laws and ethical principles.

PHT 1016 - Pharmacology II

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PHT 118 Examines the disease states which impact the various body systems and the drugs used to treat such diseases. This course emphasizes disease state management and drug therapy. Serves as the second part of the two-part presentation of the basic concepts of pharmacology.

PHT 1070 - Clinical:

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHT 170 Offers the clinical practicum required for the program.

PHT 1071 - Clinical:

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHT 171 Offers the clinical practicum required for the program.

1 First 8 weeks

2 Second 8 weeks

Photovoltaic Panel Installation CER

Program Description

See list of Department Chairs on the Personnel page.

The Industrial Technology Maintenance (ITM) Program prepares students for entry level employment into career paths that include electronics technicians, electrical technicians, semiconductor manufacturing technicians, and field service technicians. The program provides the student with knowledge and essential skills in the complex electro-mechanical systems found in production facilities. The curriculum addresses digital electronics, print reading, motors and controls, programmable logic controllers, and mechanical components. The ITM Program also offers certificates in Solar installation and Green Energy Technologies associated with Industrial Installation and Maintenance.

Total Credits: 17

Core Curriculum Requirements

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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.

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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.

ENY 1621 - Solar Photovoltaic Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): ELT 1206
Formerly ENY 121 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.

ELT 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

ENY 1655 - Solar Photovoltaic Field Lab Experience

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Department chair approval
Formerly ENY 165 Onsite / hands-on training experience for students. Experiences include on-site installations, inspection tours, mock-roof training installations, industry association meetings, field experience workshops.

ELT 2080 - Internship

Credit(s): 1-12
Internship Hour(s): 3-36
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 280 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.

ENY 1632 - NABCEP Entry Level Prep Class

Credit(s): 1
Vocational Lab Hour(s): 1.5
Formerly ENY 132 Reviews the knowledge needed by the student to permit passing the NABCEP Entry level test. This is an overview class only and is not meant to be a replacement for the actual class.

PN Opt-out Certificate

See list of Department Chairs on the Personnel page.

Program Description

The LPN program teaches you skills of direct patient care that you can apply in any healthcare setting. It offers theoretical and applied instruction in classrooms, simulated laboratories, and clinical settings. It integrates education in adult, gerontological, obstetric, pediatric, and psychiatric-mental health nursing. Your clinical learning will take place in diverse types of institutions.

The Nursing program has a selective and limited admission policy. The application is available online at **Pueblo Community College Nursing** PCCSW: December 1, 2024 - February 28, 2025 Pueblo & Fremont: April 1, 2025 – May 28, 2025 **Wednesday after Memorial Day.**

All Health & Public Safety programs have essential functions to help you be successful in the program and career. **In progress grades will be accepted, however course must show in progress at time of application and be completed in Spring semester.** It is the applicant's responsibility to submit final spring semester course grade(s) as soon as possible to the admission committee for consideration.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The LPN program prepares you to provide safe, therapeutic, and competent nursing care in hospitals and other healthcare settings. You may also work as an entry-level patient care manager.

Total Credits: 54

General Education and Program Prerequisites

First (12 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Second (12 credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy,

observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

1 Course must be completed or in progress (Spring Semester) to apply to the program

2 Course must be completed within 10 years of entrance into the program

Program Course Schedule

Application Admission Requirements

Complete NUA 101 Certified Nurse Aide Health Care Skills, or the Nurse Aide coursework within the Colorado Community College System (CCCS), or have an Active Colorado CNA Certificate. (If Nursing Assistant Certificate is obtained through a private company or an out-of-state institution, student must obtain an Active Colorado CNA Certificate). Nurse Aide certificate must be in good standing without stipulation. Nurse Aide courses must be completed within seven (7) years of entry into PCC Nursing program. If the applicant is a current Colorado Certified Nurse Aide, in good standing, there is no time limit.

Apply to the program -- April 1 to May 20, 2022

Application is online at Pueblo Community College Nursing

First (13 credits)

NUR 1009 - Fundamentals of Nursing

Credit(s): 6
Lecture Hour(s): 2

Vocational Lab Hour(s): 6
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing or Psychiatric Technician programs.
Corequisite(s): Nursing: NUR 1012, HPR 1010, MAT 1120. Psych Tech: NUR 1012.
Formerly NUR 109 Examines the fundamental concepts necessary for safe, person-centered nursing care to a diverse patient population while integrating legal and ethical responsibilities. This course introduces caring, critical thinking/clinical judgment, the nursing process, quality improvement, and communication used when interacting with patients and interdisciplinary team through evidence-based nursing practice. The 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 1012 - Basic Concepts of Pharmacology

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing or Psychiatric Technician programs.
Corequisite(s): Nursing: NUR 1009, HPR 1010, MAT 1120; Psych Tech: NUR 1009.
Formerly NUR 112 Provides an overview of the basic principles of pharmacology including major drug classifications and prototypes of commonly used medications. This course introduces central concepts including safety and quality improvement practices in the administration of medications, person centered teaching, and variations encountered when administering medications to diverse population across the lifespan.

NUR 1001 - Pharmacology Calculations

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 101 Prepares nurse to provide safe, person-centered nursing care related to dosage calculations within the respective scope of practice. This course introduces critical thinking applied to dosage calculations and communication used when interacting with patients and members of the healthcare team related to various aspects of safe administration of medications. Information technology used to document medications administered and patient technology used to deliver medications are also practiced.

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

Second (13 credits)

NUR 1006 - Medical Surgical Nursing Concepts

Credit(s): 7
Lecture Hour(s): 3.40
Vocational Lab Hour(s): 0.90

Clinic Hour(s): 9.90

Prerequisite(s): Admission to Nursing Program and completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 1050 or permission of the program director.
Formerly NUR 106 Builds on fundamentals and introduces basic medical surgical nursing concepts, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered care to a developmentally and culturally-diverse adult patient population. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the nurse. The application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings.

NUR 1050 - Maternal-Child Nursing

Credit(s): 6
Lecture Hour(s): 3.30
Vocational Lab Hour(s): 2.10
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing program and completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 1006 or permission of the program director.
Formerly NUR 150 Provides the theory of maternal-child nursing, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, family-centered nursing care to childbearing families and children that is developmentally and culturally appropriate. This course incorporates evidence-based practice, standards of practice, quality improvement, and legal and ethical responsibilities. The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of maternal-child and pediatric clinical settings.

Summer (4 credits)

NUR 1069 - Transition into Practical Nursing

Credit(s): 4
Lecture Hour(s): 2
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing program and completion of preceding required program course work or program director permission.
Formerly NUR 169 Facilitates the transition into the role of the practical nurse with emphasis on distinguishing the defined practical nurse scope of practice related to clinical practice, communication, nursing process, ethical/legal issues, and leadership skills. The student practices in the role of the practical nurse in the associated clinical experience.

Police Science Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Law Enforcement program prepares students for careers in law enforcement as a police officers, desk officer, bailiff or corrections officer. Additionally, students could work as criminal investigators, detectives, police agencies, or in correction and judicial facilities.

Program Description

The Law Enforcement program teaches students an in-depth analysis of the three (3) components of the criminal justice system (law enforcement, the judicial system and corrections) with special emphasis on criminology, substantive criminal law, procedural criminal law and constitutional law. It places a strong emphasis on reading and comprehension skills, written and verbal communication skills and empathetic awareness of cultural diversity.

Program Requirements

Entrance requirements:

Successful completion of any CCR course or qualifying placement score or exemption to complete the Criminal Justice courses. Admission into the Law Enforcement Academy courses requires a student to file an application with the PLEA Department Chair and meet specific guidelines prior to admission into the program (such as state statutory requirements for background checks). You may enroll in PLEA courses only if you are admitted into the program.

Graduation requirements:

In addition to program requirements for this program, you must complete ENG 1021, COM 1150, MAT 1140 and six (6) credits of social and behavioral science courses.

Total Credits: 37

Certificate Requirements

LEA 1001 - Basic Police Academy I

Credit(s): 6
Lecture Hour(s): 6
Formerly LEA 101 Conforms to POST (Peace Officer standards and Training) standards and Colorado 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 both a lecture and laboratory mode of learning.

LEA 1002 - Basic Police Academy II

Credit(s): 12
Lecture Hour(s): 12
Formerly LEA 102 Conforms to POST (Peace Officer Standards and Training) 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 1003 - Basic Law Enforcement Academy III

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly LEA 103 Enhances the standards established by the Colorado P.O.S.T. Board and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a Police Officer. Emphasis will be on expanding the Colorado P.O.S.T. curriculum to create a unique learning experience.

LEA 1005 - Basic Law

Credit(s): 8
Lecture Hour(s): 8
Formerly LEA 105 Conforms to the Colorado POST (Peace Officer Standards and Training) 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 1006 - Arrest Control Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 106 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace office. Exploration of the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Explains the continuum of force and de-escalation of force.

LEA 1007 - Law Enforcement Driving

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 107 Exploration of 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 1008 - Firearms

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 108 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. 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 be able to explain the firearms role within the continuum of force.

Practical Nursing (PN)

See list of Department Chairs on the Personnel page.

Offered only at PCC's Southwest Campus, Mancos

Career Information

The Practical Nursing Program is designed to prepare safe practitioners to administer basic nursing care and/or assist with care of patients of various health status and ages within the province of practical nursing as defined by law. Licensed Practical Nurses (LPNs) work under the direction of physicians and registered nurses to care for sick, injured, and convalescent. The Practical Nursing Program prepares you to provide safe, therapeutic, and competent nursing care in some hospitals and other healthcare settings. You may also work as an entry level patient-care manager.

Note: A background check and drug screen is required to be officially admitted into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Total Credits: 43

General Education (7 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

1 Courses must be completed or in progress (Fall Semester) to apply to the program. A grade of C or higher is required.

2 Courses must be completed within 10 years of entrance into the program.

3 Bio 2101 and BIO 2102 are acceptable replacements for BIO 1006 requirement

Core Requirements (36 credits)

Fall - 18

NUR 1001 - Pharmacology Calculations

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 101 Prepares nurse to provide safe, person-centered nursing care related to dosage calculations within the respective scope of practice. This course introduces critical thinking applied to dosage calculations and communication used when interacting with patients and members of the healthcare team related to various aspects of safe administration of medications. Information technology used to document medications administered and patient technology used to deliver medications are also practiced.

NUR 1002 - Alterations in Adult Health I

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 102 Provides acquisition of basic nursing theory, communication, collaboration, and critical thinking necessary for safe, person-centered nursing care to diverse adult patients experiencing common health alterations requiring medical/surgical interventions. The course introduces practical nursing and incorporates the legal and ethical responsibilities of the practical nurse (PN).

NUR 1005 - Practical Nursing Arts and Skills

Credit(s): 6
Lecture Hour(s): 3
Vocational Lab Hour(s): 9
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 105 Employs basic nursing theory and applies that theory and theory from other co-requisite nursing courses to the performance of nursing skills. Communication, collaboration, and critical thinking necessary for safe, person-centered nursing care are applied to the care of patients across the lifespan with stable and predictable outcomes. This course applies guidelines related to the professional, legal, and ethical scope of practice of the practical nurse (PN), including demonstrating safe performance of all psychomotor skills.

NUR 1010 - Pharmacology for Practical Nursing

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 110 Categorizes basic principles of pharmacology, including major drug classifications using prototype drugs, principles of medication administration including best practices for safe, quality, and person-centered care. This course will discuss the legal and ethical responsibilities of the practical nurse (PN) related to medication administration. The application of this content is used throughout the program nursing courses.

NUR 1070 - Clinical I

Credit(s): 2
Clinic Hour(s): 6

Prerequisite(s): Admission to Practical Nursing Program.
Formerly NUR 170 Offers the clinical practicum to apply the related nursing theory.

NUR 1071 - Clinical II

Credit(s): 2
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing Program.
Formerly NUR 171 Offers the clinical practicum to apply the related nursing theory.

Spring - 18

NUR 1004 - Alterations in Adult Health II

Credit(s): 5
Lecture Hour(s): 4.50
Vocational Lab Hour(s): 1.50
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071.
Formerly NUR 104 Applies and expands the knowledge and skills learned in Adult Health I to provide acquisition of basic nursing theory, communication, collaboration and critical thinking necessary for safe, person-centered nursing care for diverse adult patients with conditions that are stable and predictable. This course focuses on care of patients experiencing common health alterations requiring medical surgical interventions. The course incorporates legal and ethical responsibilities of the practical nurse (PN) in the care of adults.

NUR 1003 - Basic Health Assessment for the Practical Nurse

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071, or with department chair permission
Formerly NUR 103 Provides the theoretical knowledge and psychomotor skills used by the practical nurse (PN) performing a basic assessment of health status of stable adult patients with predictable outcomes, including collecting, reporting, and recording objective and subjective data, observing conditions or changes in condition, and differentiating normal from abnormal findings. The principles of therapeutic communication and patient teaching are included, along with practice in collecting basic assessment data in the nursing skills laboratory.

NUR 1015 - Basic Concepts of Mental Health Nursing

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 115 Applies knowledge of basic nursing theory, communication, collaboration, and critical thinking necessary for safe, person-centered nursing care to diverse patients at various levels of mental health promotion and mental illness management. This course incorporates the legal and ethical responsibilities of the practical nurse (PN) in the care of patients with mental health issues.

NUR 1011 - Advancement into Practical Nursing

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071.
Formerly NUR 111 Demonstrates the roles and responsibilities of the Practical Nurse including scope of practice,

supervision, assignment, and leadership skills. Emphasis on accountability, lifelong learning, perspectives in healthcare, and career and job readiness skills for entry level nursing practice.

NUR 1013 - Basic Concepts of Maternal-Newborn Nursing

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 113 Applies and expands the knowledge and skills learned in the previous and concurrent courses to provide the acquisition of basic nursing theory, communication, collaboration, and critical thinking necessary for safe, person-centered nursing care to childbearing families. This course incorporates the legal and ethical responsibilities of the practical nurse (PN) in the care of childbearing families.

NUR 1014 - Basic Concepts of Pediatric Nursing

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071.
Formerly NUR 114 Applies and builds upon the knowledge and skills learned in the previous and concurrent courses to provide for the acquisition of basic nursing theory, communication, collaboration, and critical-thinking necessary for safe, person-centered nursing care to children and their families. This course incorporates the legal and ethical responsibilities of the practical nurse (PN) in the care of children.

NUR 1016 - Basic Concepts of Geriatric Nursing

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 116 Applies and builds upon the knowledge and skills learned in the previous and concurrent courses to provide for the acquisition of basic nursing theory, communication, collaboration, and critical thinking necessary for safe, person-centered nursing care to older adults. This course incorporates the legal and ethical responsibilities of the practical nurse (PN) in the care of older adults.

NUR 1072 - Clinical III

Credit(s): 3
Clinic Hour(s): 9

Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 172 Offers the clinical practicum to apply the related nursing theory.

NUR 1073 - Clinical III

Credit(s): 2
Clinic Hour(s): 6

Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 173 Offers the clinical practicum to apply the related nursing theory.

Production Technician Certificate

See list of Department Chairs on the Personnel page.

CERTIFICATE IS UNDER REVIEW

Total Credits: 20

Certificate Requirements

MAC 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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.

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

MTE 1102 - Safety Manufacturing Environment

Credit(s): 1
Lecture Hour(s): 1
Formerly MTE 105 Introduces Occupational Safety and Health Administration (OSHA) federal and state regulations, industrial practices, and accident investigation techniques; including topics such as hazard communication standards, lockout/tagout procedures, eye safety, lifting techniques, electrical safety, stored energy safety, Personal Protective Equipment (PPE), and safety program development and monitoring.

MTE 1110 - Applied Communication and Teamwork in Industry

Credit(s): 3
Lecture Hour(s): 3
Formerly MTE 110 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 1200 - Manufacturing Processes

Credit(s): 3
Lecture Hour(s): 3
Formerly MTE 120 Provides an overview of the different methods, tools, and machines which are used to manufacture industrial and consumer products.

MTE 1075-1077 - Special Topics

Credit(s): 0-12
Formerly MTE 175-177 Provides student with a vehicle to pursue in depth exploration of a special topic of interest.

Professional Communication Certificate

Dr. Patrick Maille, Dean of Arts and Sciences

See list of Department Chairs on the Personnel page.

Career Opportunities

The Certificate of Professional Communication program prepares students for careers in management, human resources, nonprofit organizations, marketing, public relations and recruitment, as well as workplace advancement.

Program Description

The Certificate of Professional Communication program teaches students to write and speak to diverse publics, engage in critical thinking and problem-solving, work as part of a team and employ one-on-one conflict resolution strategies. The curriculum is designed to sharpen students' verbal and written communication abilities for the best practices of being part of a 21st-century workplace.

Disclaimer

The Certificate of Professional Communication will not appear as a certificate on official college transcripts. Courses taken toward the Certificate may apply to other programs on a degree-by-degree basis.

Program Requirements

Entrance Requirements:

Placement into ENG 1021 **or** successful completion of any CCR course with a grade of "C"/"S" **or** higher.

Graduation Requirements:

Successful completion of COM 2089 - Capstone.

Total Credits: 17

Certificate Requirements

Core Requirements (17 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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 2068 - Problem Solving

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 268 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 2300 - Intercultural Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 220 Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 2089 - Capstone

Credit(s): 2
Lecture Hour(s): 2
Formerly COM 289 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Psychiatric Technician Certificate

See list of Department Chairs on the Personnel page.

Program Description

This program teaches you to use basic patient care and psychiatric principles to interact with and care for clients in a therapeutic manner and monitor treatment modalities. You will learn to perform basic nursing skills, administer medications, conduct one-to-one relationship development, and participate in group therapy.

The Psychiatric Technician program has a selective admissions process. The program application and requirements are available in the Nursing office or at Pueblo Community College Psych Tech from March 1—July 30. All Medical & Behavior Health Division programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The Psychiatric Technician Certificate Program provides you with knowledge and skills for employment as a psychiatric caregiver in health care settings.

Total Credits: 38

Spring (9 credits)

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

NUA 1001 - Nurse Aide Health Care Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly NUA 101 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 1070 - Nurse Aid Clinical Experience

Credit(s): 1
Clinic Hour(s): 1.5

Formerly NUA 170 Applies knowledge and skill gained in NUA 101 to patient care. Pass/fail grading (F).

Fall (14 credits)

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

NUR 1001 - Pharmacology Calculations

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission to Practical Nurse Program.

Formerly NUR 101 Prepares nurse to provide safe, person-centered nursing care related to dosage calculations within the respective scope of practice. This course introduces critical thinking applied to dosage calculations and communication used when interacting with patients and members of the healthcare team related to various aspects of safe administration of medications. Information technology used to document medications administered and patient technology used to deliver medications are also practiced.

NUR 1003 - Basic Health Assessment for the Practical Nurse

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071, or with department chair permission
Formerly NUR 103 Provides the theoretical knowledge and psychomotor skills used by the practical nurse (PN) performing a basic assessment of health status of stable adult patients with predictable outcomes, including collecting, reporting, and recording objective and subjective data, observing conditions or changes in condition, and differentiating normal from abnormal findings. The principles of therapeutic communication and patient teaching are included, along with practice in collecting basic assessment data in the nursing skills laboratory.

NUR 1005 - Practical Nursing Arts and Skills

Credit(s): 6
Lecture Hour(s): 3
Vocational Lab Hour(s): 9
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 105 Employs basic nursing theory and applies that theory and theory from other co-requisite nursing courses to the performance of nursing skills. Communication, collaboration, and critical thinking necessary for safe, person-centered nursing care are applied to the care of patients across the lifespan with stable and predictable outcomes. This course applies guidelines related to the professional, legal, and ethical scope of practice of the practical nurse (PN), including demonstrating safe performance of all psychomotor skills.

NUR 1010 - Pharmacology for Practical Nursing

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 110 Categorizes basic principles of pharmacology, including major drug classifications using prototype drugs, principles of medication administration including best practices for safe, quality, and person-centered care. This course will discuss the legal and ethical responsibilities of the practical nurse (PN) related to medication administration. The application of this content is used throughout the program nursing courses.

Spring (15 credits)

PTE 1017 - Theoretical Concepts of Psychiatric Care II

Credit(s): 2
Lecture Hour(s): 2
Formerly PTE 117 Explores psychiatric problems common to four (4) special populations: children/adolescents, developmentally disabled individuals, aging persons, and forensic clients. The student learns to recognize and intervene with problems common to these four groups.

PTE 1018 - Psychiatric Management Principles

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission into the Psychiatric Technician program, PTE 1017, PTE 1071.
Corequisite(s): PTE 1072.
Formerly PTE 118 Explores principles of psychiatric unit management and professional behaviors in psychiatric care. Self-care issues and job-seeking skills are also discussed.

PTE 1020 - Application of Behavioral Health Care & Wellness

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Formerly PTE 120 Explores basic etiology, symptoms, and interventions for common behavioral and mental health disorders. Provides the opportunity for students to experience the mileu of a behavioral health care setting while providing basic care to clients experiencing common behavioral and mental health issues.

PTE 1070 - Clinical Concepts of Psychiatric Care I

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): Program admission
Formerly PTE 170 Provides clinical application of theory and principles presented in PTE 116 through supervised clinical practice in a psychiatric care setting.

PTE 1071 - Clinical Concepts of Psychiatric Care II

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): Admission into the Psychiatric Technician program, PTE 1016, PTE 1070, or permission of instructor.
Corequisite(s): PTE 1017.
Formerly PTE 171 Provides clinical application of theory and principles presented in PTE 117 through supervised clinical practice in a psychiatric care setting.

PTE 1072 - Psychiatric Management Clinical

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): Admission into the Psychiatric Technician program, PTE 1070, PTE 1071.
Corequisite(s): PTE 1018.
Formerly PTE 172 Synthesizes knowledge from prerequisite courses and provides clinical application of theory presented in PTE 118.

1 Courses must be successfully completed to continue with the program

2 Course must be completed within 7 years of a possible start

3 Course may be completed either spring or summer semester for a fall start

Safety and Leadership

See list of Department Chairs on the Personnel page.

Program Description

This certificate provides training so employees can manage safety protocols within an industrial environment. The student will learn how to incorporate safety into the culture of the facility from a managerial perspective. Current employees can earn this certificate to upscale their skill sets for an advancement. It is also a stackable certificate that illustrates the attainment of critical skills in the industry.

Total Credits: 12

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

MAN 2024 - Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 224 Focuses on the leadership skills for contemporary organizations. Covers development and communication a shared vision to motivate and empower employees to manage conflict, to negotiate, and to develop teams.

MTE 1110 - Applied Communication and Teamwork in Industry

Credit(s): 3
Lecture Hour(s): 3
Formerly MTE 110 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.

OSH 2110 - Safety Program Management

Credit(s): 3
Lecture Hour(s): 3
Formerly OSH 245 Provides principles of safety program management, to include program elements, safety culture, motivation, ethics, and auditing.

Secure Software Development Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computers cience, computer networking, and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree Section.

Total Credits: 30

Certificate Requirements

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

CSC 1029 - Introduction to Secure Coding

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1060
Formerly CSC 129 Focuses on introduction to secure coding. Emphasizes concepts, principles, and best practices of structured secure programs within security standards. Analysis of design of secure programming is stressed, including costs, threats, security concepts, policies, coding flaws, vulnerabilities, exploits, and code mitigation. Analysis of the design of legacy and contemporary object oriented languages is emphasized. Focuses on the application of secure coding principles, standards to resolve code flaws and vulnerabilities.

CSC 2025 - Computer Architecture/Assembly Language Programming

Credit(s): 4
Lecture Hour(s): 3

Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1061
Formerly CSC 225 Covers how a computer operates and the relationship between machine code and the primary computer components. The course explores the design of the processor, registers, memory, and various types of storage. Assembly language is used for computer processes commands and how programming languages use memory addresses. Overview of architecture that is in development will be discussed.

Electives (select 3 credits):

CSC 2017 - Advanced Python Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): ((CSC 1019 or CSC 1020) and MAT 1340 or higher) or CSC 1060
Formerly CSC 217 Continues program development and problem solving not covered in CSC 1019: Introduction to Programming. Students will create larger programs in the areas of advanced expression, iterator objects, parsing, and GUI applications.

CSC 2030 - C Programming: Platform

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CSC 1019 and CSC 1060
Formerly CSC 230 Prepares students to be a better programmer using the C programming language. C is a mid-level language whose economy of expression and data manipulation features allows a programmer to deal with the computer at a low level. The goal is to learn skills that are usable in many languages and understand what is happening at the machine level. The student should already understand the control structures selection, iteration, and subroutines (functions/methods).

CSC 2040 - Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060 or CSC 2017
Formerly CSC 240 Introduces the Java Platform, Standard Edition (Java SE), to develop Graphical User Interface (GUI) applications. Language constructs will include loops, conditionals, methods, and arrays. The code will incorporate event and exception handling, File I/O, and Object-Oriented Programming (OOP) concepts.

CSC 2041 - Advanced Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 2040 or CSC 1060
Formerly CSC 241 Covers advanced programming topics including multi-threading, network/internet programming, database programming, and JavaBeans. This course focuses on writing Java Enterprise Edition (Java EE) complex programs.

Solidworks/3D Modeling

See list of Department Chairs on the Personnel page.

Program Description

This certificate teaches students to design components in the manufacturing process and then create a 3D model. This is a contemporary practice that is essential to lean manufacturing.

Core Requirements (6 credits)

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

CAD 2456 - Advanced Solidworks

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CAD 2455
Formerly CAD 259 Introduces advanced applications of the 3D parametric software SolidWorks. Focuses include management of design data, advanced assembly, analysis of model creations, documentation of bill of materials and parts lists, rendering, animation, and dynamic simulation and testing a model assembly.

CAD 2660 - 3D Printing/Additive Manufacturing

Credit(s): 3
Lecture Hour(s): 3
Formerly CAD 262 Provides the student with the ability to blend the virtual and real design worlds together through the use of 3D CAD Modeling, and 3D Printing.

Structural Welder Certificate

See list of Department Chairs on the Personnel page.

Program Description

Welders must be highly skilled and knowledgeable in a variety of welding processes to meet the challenges of advanced technology and new materials. Welding is not just a trade; it's a tool for many trades requiring a high level of training and technical knowledge. The Welding Technology program helps students develop skills through classroom

studies and hands-on experience under close supervised instruction. Students learn about structural steel fabrication, layout work and pipe welding following detailed blueprints.

Total Credits: 21

Certificate Requirements

Core Requirements (21 Credits)

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1001 - Allied Cutting Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 101 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 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

WEL 1003 - Basic Shielded Metal Arc I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 103 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX10 electrodes.

WEL 1004 - Basic Shielded Metal Arc II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1003.
Formerly WEL 104 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX18 electrodes.

WEL 1006 - Blueprint Reading for Welders and Fitters

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): WEL 1001 or WEL 1002
Formerly WEL 106 Covers interpretation and creation of weld symbols and blueprints used in metal fabrication.

Web Design Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 18

Certificate Requirements

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

MGD 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications, conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

MGD 2041 - Web Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 241 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 Web sites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

Welding Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Welding program prepares you for a career in construction and manufacturing settings, small job shops, city and government welding centers and related sites. You may also work as a self-employed welder.

Program Description

The Welding AAS degree offers advanced instruction if you have finished the basic welding courses or if you are working at the trade and wish to upgrade your skills. We also give qualification tests if you wish to be become qualified in a welding process.

The Welding Certificate program provides training in the SMAW (Shielded Metal Arc Welding), GTAW (Gas Tungsten Arc Welding), GMAW (Gas Metal Arc Welding) and the Oxyacetylene cutting process. This training is also included in the degree program. This two-semester program stresses print reading and applied metal properties. It prepares you for employment in the industry in the shortest possible time.

Total Credits: 34

Certificate Requirements

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1001 - Allied Cutting Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 101 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 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

WEL 1003 - Basic Shielded Metal Arc I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 103 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX10 electrodes.

WEL 1006 - Blueprint Reading for Welders and Fitters

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): WEL 1001 or WEL 1002
Formerly WEL 106 Covers interpretation and creation of weld symbols and blueprints used in metal fabrication.

WEL 2063 - Applied Metal Properties

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly WEL 263 Introduces the study of metal properties, hardness testing, heat treatment, cold working microscopic examination and application of common commercial alloys in industry.

WEL 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

WEL 1004 - Basic Shielded Metal Arc II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1003.
Formerly WEL 104 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX18 electrodes.

WEL 1050 - AWS Qualification Testing

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 150 Provides students with the opportunity to complete a welding qualification test in accordance with an American Welding Society code or specification.

Welding Multi-Process Certificate

See list of Department Chairs on the Personnel page.

This Welding certificate offers training in Shielded Metal Arc and Gas Tungsten Arc Welding. Become familiar with cutting processes used in the field. Students can taking qualification exams at the end of the semester in various welding processes. This certificate is a fast track option. It can be completed in one semester. It is offered in the fall and spring semesters (and sometimes the summer semester), on the Pueblo campus only.

Total Credits: 18

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1041 - Introduction to Multi Process Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 141 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 A.W.S. filler metal classification and selection. Basic math, measuring, computer skills and Blueprint reading will be introduced

WEL 1042 - Basic Multi Process Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1041.
Formerly WEL 142 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 1043 - Intermediate Multi Process Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1042.
Formerly WEL 143 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 1044 - Advanced Multi Process Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1043.
Formerly WEL 144 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 1050 - AWS Qualification Testing

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 150 Provides students with the opportunity to complete a welding qualification test in accordance with an American Welding Society code or specification.

Mental Health Support Specialist

See list of Department Chairs on the Personnel page.

Program Description

The Medical Health Support Specialist certificate is an option for those who are interested in human behavior, especially in clinical or health-related settings. During the program, students will study behavioral health concepts related to addiction and substance abuse, counseling, and group dynamics. The courses for this certificate may be applied towards the Behavioral Health Addiction Recovery AAS degree. If you wish to pursue a bachelor's degree after earning your AAS, you can take advantage of a smooth transfer to UCCS for a BA in Human Services or CSU Pueblo for a BAS in Health Science and Administration.

Career Information

A Medical Health Support Specialist is a professional who works with people who have disabilities or problems with behavior and learning impairment in a variety of settings ranging from residential to outpatient, including but not limited to department of corrections, youth residential facilities, hospitals and outpatient facilities.

Career opportunities include:

- Case manager
- Peer support worker
- Community health worker
- Family support worker
- Respite care worker

Total Credits: 33

Fall -- 17

HPR 1000 - Introduction to Health

Credit(s): 3
Lecture Hour(s): 3
Formerly HPR 100 Provides foundational knowledge and skills necessary for careers in health care. This course covers basic health skills such as vital signs, hand washing, and Cardiopulmonary Resuscitation (CPR).

BEH 2030 - Applied Therapeutic Communication Skills

Credit(s): 3
Lecture Hour(s): 3
Provides effective communication techniques in behavioral health settings to forge meaningful connections with clients and provide support and guidance on their journey towards improved mental health and well-being. The course focuses on establishing rapport, demonstrating empathy, and facilitation of meaningful dialogues with clients across diverse populations, settings, and presenting concerns through experiential learning and self-reflection.

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

CSL 2046 - Ethical Practice in Addiction Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 245 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 course covers the Colorado Mental Health Practice Act and introduce the regulatory system and the role of Departmental of Regulatory Agencies (DORA) and Division of Behavioral Health (DBH) in the development and credentialing of the addiction counselor. Emphasis on developing ethical decision-making skills, knowledge of confidentiality and the prohibited activities in the Mental Health Practice Act become familiar with the National Association for Alcoholism and Drug Abuse Counselors (NAADAC) Code of Ethics and acquire the tools for ethical and legal practice.

CSL 2068 - Addictions Counseling Skills

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 268 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 2065 - Culturally Informed Treatment

Credit(s): 1
Lecture Hour(s): 1

Formerly CSL 265 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 2050 - Motivational Interviewing I

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 250 Provides the opportunity for students to learn both the model of Motivational Interviewing as well as the underlying Stages of Development model. Discussion of the populations of clients where these models have proven most effective will be discussed. Student opportunity for skills practice during class that includes skill sets specific to each stage of client readiness will be used. Presentation of assessment instruments to evaluate client readiness for change.

CSL 2054 - Trauma Informed Care

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 254 Covers the concept of trauma?informed care, an approach being adopted within human services based upon an increased awareness of the ways trauma impacts functioning. Course will define what trauma informed care is and ways a traditional treatment setting can be modified to increase the sense of safety experienced by clients. Participants will learn how to incorporate trauma?informed practices into treatment with diverse populations, such as military veterans, women, and people with co?occurring disorders.

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 106 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.

Spring -- 16

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PTE 1020 - Application of Behavioral Health Care & Wellness

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Formerly PTE 120 Explores basic etiology, symptoms, and interventions for common behavioral and mental health disorders. Provides the opportunity for students to experience the mileu of a behavioral health care setting while providing basic care to clients experiencing common behavioral and mental health issues.

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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.

CSL 2059 - Advanced Professional and Ethical Practice

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2046
Formerly CSL 259 Addresses organizational ethics and practices, individual provider ethics and practices, and guidelines for setting up a private practice. Topics will include Office of Behavioral Health (OBH) licensing rules; OBH behavioral health rules and regulations; practice standards and guidelines; Department of Regulatory Agencies (DORA) and the Mental Health Practice Act; the purpose of and the need for written policies and procedures; professional competencies, boundaries and ethical relationships; reporting violations; employee drug testing; liability insurance; clinical versus administrative supervision; the ethical delivery of culturally-responsive care and trauma-informed care; and the need for professional self-care plan. This course will build on Ethical Practice in Addiction Treatment course.

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

1 Indicates guarantee transfer course (G)

2 Indicates program core courses

3 Requires department approval

4 CAT courses

5 CAS courses

UAS: Drone Technology 1

See list of Department Chairs on the Personnel page.

Program Description

The utilization of drone technologies and applications are increasing dramatically across the nation. Drones have become an essential tool for operational efficiency at small and large-scale businesses. Formal training and certifications that validate piloting skills have become highly valued in many industries. These include agriculture, real estate, emergency medical services, construction, surveying, law enforcement, and more.

Total credits: 16

Certificate requirements

UAS 1040 - Unmanned Aircraft Systems Flight and Control

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly UAS 140 Introduces principles of flight and control as applied to Unmanned Aeronautical Vehicles (UAVs)/Unmanned Aeronautical Systems (UAS). This course includes principles of flight, mission planning, systems control, and safety of personnel, safety in the operational environment, and compliance with regulations and procedures. Human factors analysis focusing on crew resource management is also introduced.

UAS 1050 - Unmanned Aircraft Systems and Safety: UAS Foundations

Credit(s): 3
Lecture Hour(s): 3
Formerly UAS 150 Provides an understanding of the capabilities and limitations of Unmanned Aircraft Systems (UAS) technologies to including the hardware and software configurations and gain a holistic view of concerns facing UAS integration into the National Airspace System.

UAS 1051 - Unmanned Aircraft Systems and Safety: UAS Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly UAS 151 Provides an understanding of how Unmanned Aircraft Systems (UAS) are used to accomplish a variety of tasks in complex environments and how remote pilots apply UAS technology for commercial, scientific, and governmental purposes while respecting both physical and regulatory limitations. The course provides a foundation of professionalism and ethics applicable to remote pilots.

UAS 1052 - Unmanned Aircraft Systems and Safety: UAS Personnel

Credit(s): 3
Lecture Hour(s): 3
Formerly UAS 152 Provides an understanding of limits and skills employed by remote pilots in identifying and

mitigating errors. Human error and skills used to detect and stop errors during the day-to-day execution of remote pilot tasks are addressed. This course surveys the concepts of decision-making bias, stress, and methods for safely identifying and mitigating risk while making decisions.

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 112 Introduces the principles of meteorology, climatology, ecology, and regional climate classification. The course investigates the geographic factors which influence climate and ecosystems such as topography, elevation, winds, ocean currents, and latitude. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

UAS: Drone Technology 2

See list of Department Chairs on the Personnel page.

Program Description

The utilization of drone technologies and applications are increasing dramatically across the nation. Drones have become an essential tool for operational efficiency at small and large-scale businesses. Formal training and certifications that validate piloting skills have become highly valued in many industries. These include agriculture, real estate, emergency medical services, construction, surveying, law enforcement, and more.

Total credits: 16

Certificate requirements

UAS 1053 - Unmanned Aircraft Systems and Safety: Safety Management

Credit(s): 3
Lecture Hour(s): 3
Introduces Unmanned Aircraft Systems (UAS) pilots to a management system and culture that is fundamental to the aviation industry. The four pillars of safety management will be presented: safety policy, risk management, safety assurance, and safety promotion. This course will address the process of incorporating these principles into UAS operations.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

AVT 1055 - Unmanned Aircraft Systems Flight Training

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly AVT 155 Introduces and develops flight control and piloting techniques for common UAS platforms. Students will learn and demonstrate maneuvers, procedures, and best practices for safe UAS operation on fixed wing and rotary wing unmanned aircraft systems (drones).

AVT 2085 - Independent Study

Credit(s): 4
Independent Study Hour(s): 8
Formerlu AVT 285 Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

Elective:
Advanced course with an AVT or UAS prefix, approved by the advisor. **Credit(s): 3**

Construction NCCER Certificate

Total credits: 16

Certificate requirements

OSH 1310 - 10-hr Construction Industry Standards

Credit(s): 1
Lecture Hour(s): 1
Formerly OSH 127 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CON 1057 - National Center for Construction Education & Research Core

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.5
Formerly CON 157 Introduces the fundamentals for all construction trades to include basic construction site safety, introduction to construction math, introduction to power tools, introduction to construction drawings, basic communication skills, basic employability skills, and introduction to material handling. This course is designed as an entry level course for any of the building trades program specialties.

CON 1058 - National Center for Construction Education & Research Carpentry I

Credit(s): 6
Lecture Hour(s): 1
Vocational Lab Hour(s): 7.5

Formerly CON 158 Introduces foundational level carpentry skills, basic residential construction systems, the importance of personal and workplace safety, and the role of carpenters within the construction industry.

OR

- CON 2075 - Special Topics **Credit(s): 6**

CON 2080 - Internship

Credit(s): 4
Internship Hour(s): 12
Formerly CON 280 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Agricultural Production Management

See list of Department Chairs on the Personnel page.

Program Description

This certificate povides an overview of business in the agricultural industry. Students will gain foundational knowledge in farm and ranch management, marketing, and finance. The courses within this certificate are applicable to the Associate of Science degree in Soil and Crop Production, a Guaranteed Transfer degree between Colorado Community Colleges and Universities.

Total Credits: 18

See list of Department Chairs on the Personnel page.

Program Description

This certificate provides an overview of business in the agricultural industry. Students will gain foundational knowledge in farm and ranch management, marketing, and finance. The courses within this certificate are applicable to the Associate of Science degree in Soil and Crop Production, a Guaranteed Transfer degree between Colorado Community Colleges and Universities.

Certificate Requirements

AGE 1102 - Agriculture Economics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly AGE 102 Focuses on economic principles and decision-making by consumers, firms, and government with emphasis on their application to the food, fiber, and natural resource sectors of the economy. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

AGE 2105 - Farm and Ranch Management

Credit(s): 3
Lecture Hour(s): 3
Formerly AGE 205 Provide students with practical experience in applying principles of economics, business, marketing, and finance to the management of a farm/ranch operation.

AGE 2108 - Agricultural Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly AGE 208 Emphasizes principles of finance and their application to agriculture and agribusiness, including the time value of money, net present value analysis, interest, credit lending institutions, financial statements, and financial ratios.

AGE 2110 - Agriculture Marketing

Credit(s): 3
Lecture Hour(s): 3
Formerly AGE 210 Studies the agricultural marketing system and methods of marketing crops and livestock. Emphasizes hedging with futures options.

AGR 2024 - Integrated Ranch Management

Credit(s): 3
Lecture Hour(s): 3
Formerly AGR 224 Provides training in management pertaining to the economics of a ranching enterprise. Topics include principles of system management, resource inventory and management, ranch decision making, nutrition, selection, record keeping, financial management, and marketing.

- Elective: Any course with AGR, AGE, AGB, AGY, or HLT prefix. **Credit(s): 3**

Barbering Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Barbering program teaches students job entry skills, customer communication, and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, hair coloring techniques, chemical texture, hairstyling, hair cutting, facials, shaving, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field. Students can choose from the following:

Total credits: 53

Program requirement: 3

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

Core Curriculum: 50

Summer Semester: 12

BAR 1007 - Introduction to Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 107 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 1008 - Intermediate Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 108 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 2007 - Advanced Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 207 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 1066 - Introduction to Facial Massages & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 166 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 1067 - Intermediate Facial Massage & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 167 Focuses on practical application dealing with anatomy, skin disorders, skin types and facial shapes. Students help patrons select proper skin care treatments

BAR 2066 - Advanced Facial Massage & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 266 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.

COS 1060 - Introduction to Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 160 This course covers various methods of sanitation, disinfection; and principles of workplace safety, infection control and prevention. Topics presented in this course include: classroom study of bacteriology, chemistry of cleaning versus disinfecting products that are used in the cosmetology industry, and terminology dealing with infection control.

COS 1061 - Intermediate I: Disinfection, Sanitation & Safety

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 161 This course focuses on the theory and daily practice of proper methods of disinfection, sanitation and safety procedures as related to all phases of cosmetology. Topics presented in this course include: terminology and training of disinfection, sanitation and safety procedures, and customer service in a supervised salon setting or specialized class.

COS 2060 - Intermediate II: Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 260 This course covers infection control theory and practice of proper methods of sterilization, disinfection, sanitation, and safety procedures as related to all phases of the industry. Topics for this course include: terminology and training of disinfection, sanitation, and safety procedures. The individual's responsibility to provide a safe work environment is practiced.

COS 2061 - Advanced Disinfection, Sanitation & Safety

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1061.
Formerly COS 261 This course covers advanced training on decontamination and safety practices in a supervised salon and/or classroom setting and primarily focuses on student preparation for the Colorado State Board Licensing

Examination in decontamination and safety for all aspects of the industry. Topics for this course include: Occupational Safety and Health Administration (OSHA) requirements for schools and salons.

Fall Semester: 18

COS 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

BAR 1003 - Introduction to Hair & Scalp

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): Program admission
Formerly BAR 103 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 1010 - Introduction to Hair Coloring

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 1020 - Introduction to Hair Cutting

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 1030 - Introduction to Hair Styling

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
Combines theory with the practical application of air forming curling iron, finger waving, soft pressing and hard pressing.

BAR 1040 - Introduction to Permanent Waves & Chemical Relaxers

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 1031 - Intermediate Hair Styling

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
Focuses on the accepted methods of styling hair, air forming, finger waves, and hair pressing.

Spring Semester: 20

BAR 1011 - Intermediate Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): Program admission.
Emphasizes theory and practical application of color products, formulations of color, and level and shades of color.

BAR 1021 - Intermediate Hair Cutting

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 1041 - Intermediate Permanent Waves & Chemical Relaxers

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 2003 - Advanced Hair and Scalp

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 2011 - Advanced Hair Coloring

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 2020 - Advanced Hair Cutting

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 pratical procedures. Training is a combination of supervised work and specialized classes.

BAR 2031 - Advanced Hair Styling

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 2041 - Advanced Permanent Waves &Chemical Relaxers

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Program admission.
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.

Mini-Certificate

PCC offers the following Certificates that are NOT eligible for federal or state financial aid funds. For more information, please contact the appropriate department chairperson .

Advanced Emergency Medical Technician

See list of Department Chairs on the Personnel page.

Career Opportunities

The EMS program prepares you for a career in the pre-hospital health care field as an Emergency Medical Technician at either the Basic, Intermediate, or Paramedic level. Career opportunities include ambulance service, fire service, tactical EMS, critical care transport, and emergency department technician. If you graduate with an AAS degree, you have additional career opportunities in administration and management in the pre-hospital field.

Program Requirements

Entrance Requirements

To enroll in the EMT, EMT-Intermediate, or Paramedic programs, you must be at least 18 years of age, have all current immunizations, and be able to meet the requirements of the Colorado Department of Public Health and Environment EMTS Division Functional EMT Job Description. For enrollment into the AEMT program you must be a current EMT in Colorado. For the Paramedic program, you must have a current Colorado EMT certification, an EMT IV endorsement, successfully complete all pre-screening examinations, and prerequisites, and obtain department approval.

Total Credits: 10

AEMT Option Requirements

Prerequisite Courses for Program Admission **Credit(s): 10**

EMS 1125 - AEMT Fundamentals

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): College readiness in English

Formerly EMS 131 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 1127 - AEMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 1125
Formerly EMS 127 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 1133 - AEMT Medical Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 133 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 1135 - AEMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 135 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 1071 - AEMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): EMS 1125
Formerly EMS 171 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.

Air Conditioning Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 6

Certificate Requirements

ASE 2064 - Introduction Automotive Heating and Air Conditioning

Credit(s): 1
Vocational Lab Hour(s): 1.5

Formerly ASE 264 Covers basic operation of heating and air conditioning components. This course meets MLR/AST/MAST requirements.

ASE 2065 - Heating and Air Conditioning Systems

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 265 Emphasizes lecture and related laboratory experiences in the diagnosis and service of vehicle heating and air conditioning systems and their components.

ASE 2182 - Internship: General (Summer)

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 282 Emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student takes all related sponsor requirements in (STS) Service Training Standards (General Motors) or ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Automatic Transmissions Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 6

Certificate Requirements

ASE 2050 - Automatic Transmission/Transaxle Service

Credit(s): 1
Lecture Hour(s): 1
Formerly ASE 250 Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle. This course meets MLR/AST/MAST requirements.

ASE 2051 - Automotive Transmission and Transaxle Repair

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly ASE 251 Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation including removal, installation, and replacement of transmission/transaxle and components. This course meets AST/MAST requirements.

ASE 2052 - Advanced Automatic Transmissions/Transaxles O/H

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 252 Covers the diagnosis, repair, and rebuild of automatic transmissions and transaxles including the hydraulic, electronic, and mechanical components. This course meets MAST requirements.

Barber Endorsement

See list of Department Chairs on the Personnel page.

The Barbering Crossover Certificate is designed for Licensed Cosmetologists to learn the remaining skills that Barbers know they can carry a dual license in the State of Colorado. The program includes techniques in men's hair cutting, men's facials, shaving, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on manikins and the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

Total Credits: 3

COS

Students wnting to obtain a Barbering License by completing the Barbering Crossover Certificate will have to have their Cosmetology License.

Core Curriculum Summer Semester (3 credits)

BAR 1007 - Introduction to Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 107 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 1008 - Intermediate Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 108 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 2007 - Advanced Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 207 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.

Basic Wildland Firefighter Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Wildland Firefighter Certificate will prepare students for a career with local and state fire departments and federal land management agencies (US Forest Service, etc.). Additionally, this certificate is designed for individuals with a general interest in wildland fire suppression; volunteer firefighters who would like to expand their knowledge and career opportunities; and currently enrolled students with an interest in supplementing their degrees.

Program Description

The Wildland Firefighter Program will provide students with a solid foundation in theory and application of wildland fire suppression concepts. This certificate will also provide training that exceeds the minimum requirements for prospective wildland firefighters as established by the National Fire Protection Association and the National Wildfire Coordinating Group.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

Successful completion of all course work with a grade of "C" or better.

Total Credits: 3

FSW 1000 - S-190 Introduction to Wildland Fire Behavior

Credit(s): 1
Lecture Hour(s): 1
Formerly FSW 100 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 FSW 1001 - S-130 Firefighting Training.

FSW 1001 - S-130 Firefighting Training

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly FSW 101 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.

CIS: Microsoft Office

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet

and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 6

Certificate Requirements

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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 2018 - Advanced PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 218 Emphasizes solving business problems by integrating data from all of the software applications that facilitate the production of useful information. Advanced capabilities of a PC software applications suite are utilized. Printed documents, reports, slides, and forms are produced to communicate information.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

CNC Machining

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 12

Certificate Requirements

MAC 2003 - Introduction to CNC Operations

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 203 Introduces basic writing and editing of CNC programs. G&M codes, math, speeds feeds, production processes including basic process controls, simple fixturing, and documentation associated with manufacturing will be covered.

MAC 2008 - CNC Operations II

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 208 Further develops skills in writing and editing advanced CNC programs. G&M codes, math, speeds deeds, production processes including multi-part, process controls, fixturing, and documentation associated with manufacturing will be covered.

Comp-Aided:Dsgn & Mfg: CAD/CAM

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 10

Certificate Requirements

MAC 2043 - Mastercam

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50

Formerly MAC 243 Introduces the concepts of creating basic 2D and 3D Mastercam wireframes, building and manipulating surfaces and solids. The practices and techniques of fixture incorporation, tool pathing, and machine code generation will be discussed. Basic user interfaces and custom interface setup will be covered, as well as common file storage.

MAC 2041 - CAD CAM 2D Lab

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly MAC 241 Requires students to produce a variety of lab exercises on robotic machinery in conjunction with MAG 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.

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

Construction Technician Basic Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Construction Technology program prepares students for entry-level careers in construction, including carpentry, roofing, concrete work, painting, drywall, and insulation.

Program Description

The Construction Technology Program prepares students to apply basic, technical knowledge and skills in building trades and construction. This includes building, inspecting, and the maintenance of structures and related properties. Training involves using construction equipment safely; blueprint reading; building codes; construction mathematical skills (such as measurements); framing; and other related applications. Students have opportunities to visit construction sites and meet professionals working within the industry. Students gain exposure to multiple career options within the industry.

Total Credits: 15

Certificate Requirements

CAR 1000 - Introduction to Carpentry

Credit(s): 1
Lecture Hour(s): 1
Formerly CAR 100 Provides a basic introduction to construction work for all crafts. This course specifically applies to construction sites.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1001 - Basic Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly CAR 101 An overview of safety concerns and procedures in the construction field.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1002 - Hand and Power Tools

Credit(s): 1
Lecture Hour(s): .25
Vocational Lab Hour(s): 1.12
Formerly CAR 102 Focuses on basic hand and power tools including stationary tools. Emphasizes a hands-on approach to proper and safe use of these tools as it applies to the construction environment and is taught in conjunction with a lab or framing class.

CAR 1005 - Job Site Layout and Blueprint Reading

Credit(s): 1
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 0.75
Formerly CAR 105 Introduces blueprint reading and how they apply to the construction site. Includes in-depth introduction to site layout (materials and methods).

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1021 - Floor Framing

Credit(s): 1
Lecture Hour(s): 0.25
Vocational Lab Hour(s): 1.12
Formerly CAR 121 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1022 - Wall Framing

Credit(s): 1
Lecture Hour(s): 0.25
Vocational Lab Hour(s): 1.12
Formerly CAR 122 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1023 - Roof Framing

Credit(s): 1
Lecture Hour(s): 0.25
Vocational Lab Hour(s): 1.12
Formerly CAR 123 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1070 - Clinical: Construction Lab I

Credit(s): 1
Clinic Hour(s): 2

Formerly CAR 170 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

CAR 1071 - Clinical: Construction Lab I

Credit(s): 1
Clinic Hour(s): 2

Formerly CAR 171 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

CAR 1075-1077 - Special Topics

Credit(s): 0-12
Formerly CAR 175-177 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Elective Courses (3 Credits)

(Select 3 credit hours)

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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 2064 - Negotiation

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 264 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 2069 - Leadership

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 269 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.

Early Childhood Entry Level Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The ECE program prepares you for a career in teaching children (birth to age 5). The program can also prepare you to become an Early Childhood Teacher or director in the field of Early Childhood Education.

Program Description

This program prepares you to become a productive, caring and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive and physical development. Classes also focus on cultural diversity among children. You will become familiar with theories concerning child development and ECE, and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Program Requirements

Entrance Requirements:

You should demonstrate an interest in the care and well-being of young children. You must also be free from evidence of illness – mental and physical – and free from personal conduct which may be injurious to children as stated in the Colorado Rules and Regulations for Child Care Centers, section 7.702.51.

You must meet with an ECE faculty advisor before registering for ECE courses.

Note: Students interested in transferring to a baccalaureate program in Early Childhood Education or Elementary Education should refer to the Transfer Degree section.

Total Credits: 6

Certificate Requirements

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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.

or

ECE 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

Choose One Course Listed Below (3 Credits)

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 1125 - Intro to Infant/Toddler Lab Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1111 and ECE 1011
Formerly ECE 112 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 2661 - Science/Math and the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 125 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 2051 - Nutrition, Health and Safety

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 205 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 2621 - ECE Curriculum Development: Methods and Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 220 Explores planning and implementing effective early childhood curriculum for children, from birth through age eight years, including developmentally and culturally appropriate classroom environments, and written curriculum plans. The course also covers curricular content areas relevant to early childhood.

ECE 2631 - Language and Cognition for the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 225 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 2641 - Creativity and the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381

Formerly ECE 226 Explores creative learning theories and evidence-based practices related to creative self-expression with young children. The course emphasizes the teacher's role in encouraging and supporting creativity and problem-solving skills. The course also addresses the use of developmentally appropriate curriculum planning to promote creative self-expression in all developmental domains for children ages birth through 8 years.

ECE 2381 - Ece Child Growth and Development

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 238 Provides an overview of growth, development, and learning of young children from birth through 12 years. The course includes the major theories of development as integrated in developmental domains and offers opportunities to practice effective research and assessment methods to gather child development information. This course also includes practical applications of child development knowledge to responsive teaching practices.

ECE 2101 - Working with Parents, Families, and Community Systems

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 256 Examines personal and professional dispositions and strategies impacting partnerships with diverse families, including perspectives that recognize diversity and promote equity in early care and education settings. The course covers theoretical perspectives of families and communities, communication strategies, and activities used to promote family partnerships, and explores community resources to support children and their families.

or

ECE 2601 - The Exceptional Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 260 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.

Emergency Medical Technician Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The EMS program prepares you for a career in the pre-hospital health care field as an emergency medical care provider at the EMT, EMT-Intermediate or Paramedic level. Career opportunities include providing patient care while working for an ambulance agency, fire service or hospital emergency room. Additional opportunities are in such areas as tactical EMS, critical care transport and ski patrol. If you graduate with an AAS degree you have additional opportunities in administration and management in the pre-hospital field.

Program Description

This program teaches you the knowledge and skills needed for scene management, emergency patient care and transport. This includes scene safety, patient assessment and treatment, medication administration, documentation and patient transport. Upon successful completion of the program, you may take the National Registry exam and, upon passing the exam, you may apply for Colorado State Certification at your level of training.

Program Requirements

Entrance Requirements:

To enroll in the EMT, EMT-Intermediate or Paramedic programs, you must be at least 18 years of age, have all current immunizations and be able to meet the requirements of the PCC EMS Common Functional Abilities Standard. For enrollment into the EMT-Intermediate or Paramedic programs, you must have a current Colorado EMT certification, an EMT IV endorsement, successfully complete all prescreening examinations and prerequisites, and obtain department approval for enrollment into these programs.

The EMS Department is offering an EMT-Intermediate to Paramedic Bridge course for those who are EMT-Intermediates. To qualify for this program you must be an EMT-I99, be eligible for state certification, and pass an EMT-I prescreening exam or be nationally registered as an EMT-I99. For more information on prerequisites and classes, please call the EMS Department.

Note: Clinical agencies used during the program require that you successfully complete a background check and a drug screen, immunization series and CPR training. Please check with a program advisor for any changes to admission requirements.

Total Credits: 11-12

Emergency Medical Technician

Total Credits: 12

Certificate Requirements

EMS 1021 - EMT Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly EMS 121 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 1022 - EMT Medical Emergencies

Credit(s): 4
Lecture Hour(s): 3

Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 122 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 1023 - EMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 123 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 1024 - EMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 124 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 1070 - EMT Clinical

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly EMS 170 Provides the EMT student with the clinical experience required for initial certification and some renewal processes.

Advanced Emergency Medical Technician

Total Credits: 11

Certificate Requirements

EMS 1127 - AEMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 1125
Formerly EMS 127 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 1125 - AEMT Fundamentals

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): College readiness in English
Formerly EMS 131 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 1133 - AEMT Medical Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 133 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 1135 - AEMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 135 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 1071 - AEMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): EMS 1125
Formerly EMS 171 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.

Engine and Electrical Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 16

Certificate Requirements

ASE 1020 - Basic Auto Electricity

Credit(s): 2
Lecture Hour(s): 1.5
Vocational Lab Hour(s): 0.75
Formerly ASE 120 Introduces vehicle electricity, basic electrical theory, circuit designs, and wiring methods. This course focuses on multimeter usage and wiring diagrams. This course meets MLR/AST/MAST requirements.

ASE 1023 - Starting and Charging System

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 123 Covers the operation and theory of a vehicle battery, testing, service, and repair of starting and charging systems including voltage testing, draw testing. This course meets MLR/AST/MAST program requirements.

ASE 1030 - General Engine Diagnosis

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 130 Covers how to perform basic engine diagnosis to determine condition of engine including engine support systems. This course meets MLR/AST/MAST requirements.

ASE 1032 - Ignition System Diagnosis and Repair

Credit(s): 2
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 0.75
Formerly ASE 132 Focuses on lecture and related laboratory experiences in the diagnosis, service, adjustments and repair of various automotive ignition systems.

ASE 1061 - Automotive Engine Repair & Rebuild

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly ASE 161 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 1062 - Automotive Engine Service & Repair

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 162 Covers engine sealing requirements and repair procedures including engine fasteners, bolt torque, repair of fasteners, cooling system, and basic engine maintenance. This course meets AST/MAST requirements.

ASE 2060 - Advanced Engine Diagnosis

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 260 Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors related to customer vehicles.

ASE 2182 - Internship: General (Summer)

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 282 Emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student takes all related sponsor requirements in (STS) Service Training Standards (General Motors) or ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Fire Sci: Prevention/Edu

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course.

Total Credits: 14

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1006 - Fire Prevention

Credit(s): 3
Lecture Hour(s): 3

Formerly FST 106 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 1050 - Introduction to Fire Prevention Education

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 150 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 2004 - Principles of Code Enforcement

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 204 Provides the students with the fundamental knowledge of the role of code enforcement in a comprehensive fire prevention program.

FST 2008 - Fire Plans Review and Acceptance Testing

Credit(s): 2
Lecture Hour(s): 2
Formerly FST 208 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 2009 - Fire Protection Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 209 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.

Fire Sci: Struct Investigator

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course

Total Credits: 9

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 2005 - Fire Investigation I

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 205 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 2051 - Legal Aspects of Fire Service

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 251 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 2052 - Fire Investigation II

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 252 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.

Fire Sci: Vehicl Extraction

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course.

Total Credits: 3

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1026 - Vehicle Extrication Awareness Level

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly FST 126 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 1027 - Vehicle Extrication Operations Level

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly FST 127 Expands and refines the objectives of FST 1026. 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.

Fire Science: Basic

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course

Total Credits: 9

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1002 - Principles/Emergency Services

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 102 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 1003 - Fire Behavior & Combustion

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 103 Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FST 1009 - Occupational Safety & Health

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 109 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.

Fire Science: Fire Fighter I

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course

Total Credits: 12

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1000 - Firefighter I

Credit(s): 9
Lecture Hour(s): 6
Vocational Lab Hour(s): 4.50
Formerly FST 100 Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard.

FST 1007 - Hazardous Materials Operations (Level I)

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 107 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.

Fire Science: Officer I

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course.

Total Credits: 12

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 2001 - Instructional Methodology

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 201 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 2006 - Fire Co Superv and Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 206 Addresses the requisite knowledge and skills required to perform at level 1 as identified in National Fire Protection Association (NFPA) 1021, Fire Officer Professional Qualifications. Areas of focus include: fire department organization, company officer traits, roles and responsibilities, communications practices, administrative functions, safety, health and wellness, training, fire prevention, human resources management, and incident management and operations. The course prepares the learner for the Colorado Fire Officer I State Exams and JPR evaluations.

FST 2053 - NIMS

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FST 2002.
Formerly FST 253 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 2055 - Fire Service Management

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 255 Serves as the basic management course for present and potential members of the fire and emergency service professions. The course introduces the student to current fire service management practices, challenges, and real-world applications from the fire officers point of view. The course addresses decision-making, problem solving, necessary communication skills, conflict resolution, effective leadership skills, as well as the role of the fire service manager in supervising personnel and programs.

Firefighter Academy Structural Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course

Total Credits: 16

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1000 - Firefighter I

Credit(s): 9
Lecture Hour(s): 6
Vocational Lab Hour(s): 4.50
Formerly FST 100 Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard.

FST 1007 - Hazardous Materials Operations (Level I)

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 107 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 1060 - Candidate Physical Abilities Test Prep

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly FST 160 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 1075 - Special Topics

Credit(s): 0-12
Formerly FST 175 Provides students with a vehicle to pursue in-depth exploration of Special Topics of interest.

Fuels and Emissions Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 14

Certificate Requirements

ASE 1034 - Automotive Fuel and Emissions Systems I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 134 Focuses on the diagnosis and repair of automotive fuel emission control systems, filter systems, and spark plugs. This course also includes maintenance to Diesel Exhaust Fluid (DEF) systems.

ASE 2021 - Auto/Diesel Body Electrical

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly ASE 221 Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories.

ASE 2033 - Auto Fuel Injection and Emissions Systems II

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 233 Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.

ASE 2036 - Advanced Drivability Diagnosis/Repair

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 236 Focuses on lecture and laboratory experiences in the inspection, testing and repair of typical computerized engine control systems on customer vehicles.

Hairstylist Barber Crossover

See list of Department Chairs on the Personnel page.

The Barbering Crossover Certificate is designed for Licensed Hairstylists to learn the remaining skills that Barbers know they can carry a dual license in the State of Colorado. The program includes techniques in men's hair cutting, men's facials, shaving, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on manikins and the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

Total Credits: 6

HST

Students wanting to obtain a Barbering License by completing the Barbering Crossover Certificate will have to have already obtained their Hairstylist License.

Core Curriculum Summer Semester (6 credits)

BAR 1007 - Introduction to Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 107 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 1008 - Intermediate Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 108 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 2007 - Advanced Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 207 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 1066 - Introduction to Facial Massages & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 166 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 1067 - Intermediate Facial Massage & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 167 Focuses on practical application dealing with anatomy, skin disorders, skin types and facial shapes. Students help patrons select proper skin care treatments

BAR 2066 - Advanced Facial Massage & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 266 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.

High Pressure Pipe Welder Mini-Certificate

See list of Department Chairs on the Personnel page.

Program Description

Welders must be highly skilled and knowledgeable in a variety of welding processes to meet the challenges of advanced technology and new materials. Welding is not just a trade; it's a tool for many trades requiring a high level of training and technical knowledge. The Welding Technology program helps students develop skills through classroom studies and hands-on experience under close supervised instruction. Students learn about structural steel fabrication, layout work and pipe welding following detailed blueprints.

Total Credits: 16

Certificate Requirements

Core Requirements (16 Credits)

WEL 2039 - 2G-Horizontal Pipe A.S.M.E.

Credit(s): 4
Lecture Hour(s): 1

Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2033.
Formerly WEL 239 Instructs in safety, theory, and practical applications in joint fit-up, design, and welding pipe in the 2-G Horizontal position. This course teaches 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 2041 - 5G-Verticial Up A.S.M.E.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2039.
Formerly WEL 241 Instructs in safety, theory, and practical applications in joint fit-up, design, and welding pipe in the 5-G Vertical up position. This course teaches 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 2042 - 6G-45 All Sizes Pipe

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2041.
Formerly WEL 242 Instructs in safety, theory, and practical applications in joint fit-up, design, and welding pipe in the 6-G 45° Uphill position. This course teaches 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 2043 - Testing All Sizes Pipe

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 243 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.

Industrial Technology Maintenance Level II Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Industrial Technology Maintenance Level Two Certificate provides advanced technical skills as students pursue careers as an electronics technician, an electro-mechanical technician, a semiconductor manufacturing technician, or an electro-mechanical field services technician. Students are encouraged to obtain an AAS degree for supervisory positions.

Total Credits: 16

Certificate Requirements

Fall Semester

ELT 2357 - Sensors and Transducers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 257 Enables the student to study, construct, test and evaluate methods of testing and controlling common industrial processes. Includes sensing systems, transducers, measurement techniques, systems interfacing, process control and data acquisition.

ELT 2359 - Advanced Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 2358
Formerly ELT 259 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 2089 - Capstone: Automated Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 289 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.

MTE 2320 - Fluid Power Control

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): MTE 1102 or Corequisite below
Corequisite(s): MAT 1140 or higher
Formerly MTE 238 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.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

Infant Toddler Supervisor Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The ECE program prepares you for a career in teaching children (birth to age 5). The program can also prepare you to become an Early Childhood Teacher or director in the field of Early Childhood Education.

Program Description

This program prepares you to become a productive, caring and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive and physical development. Classes also focus on cultural diversity among children. You will become familiar with theories concerning child development and ECE, and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Program Requirements

Entrance Requirements:

You should demonstrate an interest in the care and well-being of young children. You must also be free from evidence of illness – mental and physical – and free from personal conduct which may be injurious to children as stated in the Colorado Rules and Regulations for Child Care Centers, section 7.702.51.

You must meet with an ECE faculty advisor before registering for ECE courses.

Note: Students interested in transferring to a baccalaureate program in Early Childhood Education or Elementary Education should refer to the Transfer Degree section.

Total Credits: 12

Certificate Requirements

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 1125 - Intro to Infant/Toddler Lab Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1111 and ECE 1011
Formerly ECE 112 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.

Intermediate Structural Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Welding program prepares you for a career in construction and manufacturing settings, small job shops, city and government welding centers and related sites. You may also work as a self-employed welder.

Program Description

The Welding AAS degree offers advanced instruction if you have finished the basic welding courses or if you are working at the trade and wish to upgrade your skills. We also give qualification tests if you wish to be become qualified in a welding process.

The Welding Certificate program provides training in the SMAW (Shielded Metal Arc Welding), GTAW (Gas Tungsten Arc Welding), GMAW (Gas Metal Arc Welding) and the Oxyacetylene cutting process. This training is also included in the degree program. This two-semester program stresses print reading and applied metal properties. It prepares you for employment in the industry in the shortest possible time.

Total Credits: 12

Certificate Requirements

WEL 1006 - Blueprint Reading for Welders and Fitters

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): WEL 1001 or WEL 1002
Formerly WEL 106 Covers interpretation and creation of weld symbols and blueprints used in metal fabrication.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

WEL 1025 - Introduction to Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024.
Formerly WEL 125 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 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

Introduction to Media Communications Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 15

Certificate Requirements

MGD 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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 1012 - Adobe Illustrator I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 112 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 1013 - Adobe InDesign

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 114 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

MGD 2041 - Web Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 241 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 Web sites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

Introductory Structural Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Welding program prepares you for a career in construction and manufacturing settings, small job shops, city and government welding centers and related sites. You may also work as a self-employed welder.

Program Description

The Welding AAS degree offers advanced instruction if you have finished the basic welding courses or if you are working at the trade and wish to upgrade your skills. We also give qualification tests if you wish to be become qualified in a welding process.

The Welding Certificate program provides training in the SMAW (Shielded Metal Arc Welding), GTAW (Gas Tungsten Arc Welding), GMAW (Gas Metal Arc Welding) and the Oxyacetylene cutting process. This training is also included in the degree program. This two-semester program stresses print reading and applied metal properties. It prepares you for employment in the industry in the shortest possible time.

Total Credits: 13

Certificate Requirements

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

WEL 1003 - Basic Shielded Metal Arc I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 103 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX10 electrodes.

WEL 1004 - Basic Shielded Metal Arc II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1003.
Formerly WEL 104 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX18 electrodes.

Leadership Studies Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The AAS and Certificate programs prepare you for entry level positions in marketing, management or sales; they also give you the skills you need to open your own business.

Program Description

Prepares students for lives of learning, leadership, and service; and designed to enhance and explore leadership potential through curricular design that includes academic courses, seminars, and community service opportunities. The Leadership certificate will verify student's leadership education and training for potential transfer colleges and employers. By obtaining a PCC leadership certificate, students should be able to demonstrate the following: 1.) Personal leadership development. 2.) Leadership skills (communication, motivation, team building, etc.). 3.) Critical thinking. 4). Leadership theory. 5). Civic engagement. 6). Appreciation for diversity.

Total Credits: 12

Certificate Requirements

Leadership Certificate Requirements (9 Credits)

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

MAN 2024 - Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 224 Focuses on the leadership skills for contemporary organizations. Covers development and communication a shared vision to motivate and empower employees to manage conflict, to negotiate, and to develop teams.

PSV 2030 - Introduction to Civic Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly PSV 230 Enables the student to develop a critical understanding of public leadership through the study of pertinent models, theories and research.

Elective Courses (3 Credits)

(Select 3 credit hours)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 2300 - Intercultural Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 220 Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2771 - Psychology of Personality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 265 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 is a statewide Guaranteed Transfer course in the GT-SS3 category GT-SS3

PSY 2773 - Organizational Psychology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 268 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.

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 102 Examines the basic concepts, theories, and principles of sociology, including topics of family, religion, education, politics, the economy, health, demography, the environment and social movements through a local and global lens. Analyzes and interprets socio-historical as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

Local Anesthesia and Nitrous Oxide/Oxygen Sedation Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Dental Hygiene program prepares you for a career in a variety of professional settings. The most familiar setting is the private dental office, where hygienists perform critical services to detect and prevent diseases of the mouth. Beyond the private dental office, you can find employment in nursing homes and long-term care facilities, hospitals, corporate health facilities, school systems and public health clinics. You may also work as an educator or researcher.

Program Description

The AAS Degree prepares you to provide dental hygiene services to patients and educate them in aspects of preventive dentistry. In our on-campus clinic, you will provide preventive and therapeutic services for patients under the supervision of Dental Hygiene faculty.

In the traditional role of dental hygienist, training includes prophylaxis, patient data gathering for dental hygiene diagnosis and treatment planning, fluoride treatment, sealant application, radiographic examination and nutritional counseling. In the expanded role of the dental hygienist, training includes treatment of periodontally-involved patients and treatment of handicapped, institutionalized and other medically compromised patients. You also learn to perform local anesthesia and administer nitrous oxide.

Because of the high level of personal and professional responsibility required of a dental hygienist, you must have integrity, maturity, individual motivation, good interpersonal skills, excellent manual dexterity and a solid science and general studies academic background to be successful in this program. We are firmly committed to fostering your intellectual growth and to developing well-qualified dental hygienists with high professional standards and ethics.

The Mini-Certificate in Local Anesthesia and Nitrous Oxide/Oxygen Sedation provides you with knowledge of the theory and practice of local anesthesia and nitrous oxide/oxygen sedation. This program teaches you to administer local anesthetics and nitrous oxide proficiently and safely. The administration of local anesthesia and nitrous oxide/oxygen sedation may be performed by licensed dental hygienists under the Colorado State Dental Practice Act. You must be currently enrolled in the Dental Hygiene program to enter this program.

Program Requirements

Entrance Requirements:

You must complete a current Dental Hygiene program application and meet all minimum requirements and application timelines. The application is available through the Dental Hygiene program, at the PCC Dental Hygiene website or in Admissions & Records. You should seek advisement from program faculty for assistance with applications, minimum requirements and required general education courses for admissions. In addition, all students entering the program will need a current CPR card good for 2 years.

If you are an AAS Dental Hygiene student, you must complete all General Education/Related Requirements.

Note: All students are accepted provisionally pending completion of a criminal background check. Disclaimer: The Colorado Board of Dental Examiners requires a dental hygienist applying for licensure 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.

Total Credits: 3

Certificate Requirements

DEH 1033 - Local Anesthesia

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 133 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 1038 - Nitrous Oxide/Oxygen Sedation

Credit(s): 1
Lecture Hour(s): 0.80
Clinic Hour(s): 0.40

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 138 Develops a working knowledge of the equipment and methods used to administer nitrous oxide/oxygen sedation in the dental office.

Low Pressure Pipe Welder Mini-Certificate

See list of Department Chairs on the Personnel page.

Program Description

Welders must be highly skilled and knowledgeable in a variety of welding processes to meet the challenges of advanced technology and new materials. Welding is not just a trade; it's a tool for many trades requiring a high level of training and technical knowledge. The Welding Technology program helps students develop skills through classroom studies and hands-on experience under close supervised instruction. Students learn about structural steel fabrication, layout work and pipe welding following detailed blueprints.

Total Credits: 16

Certificate Requirements

Core Requirements (16 Credits)

WEL 2033 - 2G-Horizontal Pipe A.P.I.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1004 or equivalent.
Formerly 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 Petroleum Institute Pipe Code using the SMAW process with E-XX10 type electrodes.

WEL 2034 - 5G-Vertical Down A.P.I.

Credit(s): 4
Lecture Hour(s): 1

Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2033.
Formerly WEL 234 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 2035 - 6G-45 Down A.P.I.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2034.
Formerly WEL 235 Instructs in safety, theory, and practical applications in joint fit-up, design, and welding pipe in the 6-G 45° down position. This course also teaches welding in accordance with the American Petroleum Institute Pipe Code using the SMAW process with E-XX10 type electrodes.

WEL 2048 - Pipe Layout

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 248 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.

Manual Transmissions Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 7

Certificate Requirements

ASE 1051 - Automotive Manual Transmission/Transaxles & Clutches I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 151 Focuses on the diagnosis and repair of automotive manual transmissions, transaxles, clutches, and related components. This course meets AST/MAST requirements.

ASE 1052 - Manual Transmission, Transaxles and Clutches II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 152 Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all-wheel drive units.

ASE 2053 - Advanced Manual Transmission/Transaxles

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 253 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 2181 - Internship: Basic Heavy Duty and Power Train

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 281 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 ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Med Prep for Nursing Assistant Mini-Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Med Prep program provides students with the opportunity to develop skills and knowledge for health occupations. This program is nine months in length; however, students have the option of taking either one or both semesters.

During the fall semester, students will pursue a common core of instruction. This course is structured to provide the students with a broad academic and vocational foundation in the health care professions. An introduction to the health care professions is provided through field trips, speakers, classroom activities and laboratory experiences. Students will have presentations by medical professionals who are currently working in the field to offer insight into the medical careers available. Students will receive instruction in nurse assisting and will be eligible to take the State Certification test.

The second semester will provide students with career development skills such as resume writing, portfolio building, interviewing techniques and basic knowledge about how to be successful in the professions of health care. Students will also obtain job exploration experience (job shadowing) at several health care agencies in the area. At the end of the semester, students will receive a certificate for Clinical Medical Assistant/Pharmacy Aid.

Total Credits: 14.5

Certificate Requirements

HPR 1000 - Introduction to Health

Credit(s): 3
Lecture Hour(s): 3
Formerly HPR 100 Provides foundational knowledge and skills necessary for careers in health care. This course covers basic health skills such as vital signs, hand washing, and Cardiopulmonary Resuscitation (CPR).

NUA 1001 - Nurse Aide Health Care Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly NUA 101 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 1070 - Nurse Aid Clinical Experience

Credit(s): 1
Clinic Hour(s): 1.5

Formerly NUA 170 Applies knowledge and skill gained in NUA 101 to patient care. Pass/fail grading (F).

CIS: Networking Technology

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 13

Certificate Requirements

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

CNG 1004 - Intro to TCP/IP

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 104 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 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

CIS: Networking Security

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 15

Certificate Requirements

CNG 1004 - Intro to TCP/IP

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 104 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 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 133 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 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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.

Nurse Aide

See list of Department Chairs on the Personnel page.

Program Description

The Nurse Aide (NUA) program teaches students the basic skills and methods needed to help hospital clients.

Students will also learn skills to help long-term care residents, and home health care clients with their daily living activities.

The NUA program has a selective admissions process. The program application and requirements are available in the Nursing Department front office or at Pueblo Community College NUA at any time. All Nursing and Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

Nurse Aides work in Hospitals, Skilled Nursing Facilities, Assisted Living and home health care.

Total Credits: 5

Certificate Requirements

NUA 1001 - Nurse Aide Health Care Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly NUA 101 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 1070 - Nurse Aid Clinical Experience

Credit(s): 1
Clinic Hour(s): 1.5

Formerly NUA 170 Applies knowledge and skill gained in NUA 101 to patient care. Pass/fail grading (F).

Phlebotomy Technician Mini-Certificate

See list of Department Chairs on the Personnel page.

Program Description

Phlebotomy Technician (PHL) is a one-semester (three course) certificate program. Courses cover venipuncture, capillary puncture, quality control, infection control, safety procedures, and laboratory computer systems. You will participate in laboratory and clinical experiences to perfect blood drawing skills and prepare you for the workforce as a qualified phlebotomist. When you successfully complete this program, you are eligible to sit for the National Phlebotomy Registry Exam.

The PHL program has a selective admissions process. The program application and requirements are available in the Health & Public Safety office or at Pueblo Community College PHL April 1 to July 15 for Fall Semester start and October 1 to December 15 for Spring Semester start.

Note: You must undergo a background check and drug screen before we can officially admit you to the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

Phlebotomy Technician work in doctor's offices, hospital and outpatient labs.

Total Credits: 10

Certificate Requirements

HPR 1020 - Phlebotomy

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Program admission required.
Formerly HPR 112 Covers the duties associated with the practice of venipuncture, capillary puncture, and special collection procedures. This course provides experience with quality control, infection control, safety procedures, as well as laboratory computer systems. Successful completion of this course, with an adequate number of blood draws, will constitute eligibility for application for a National Phlebotomy Registry Examination.

HPR 2020 - Advanced Phlebotomy

Credit(s): 4
Lecture Hour(s): 2.50
Vocational Lab Hour(s): 2.25
Prerequisite(s): Program admission required.
Formerly HPR 113 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 1080 - Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): Program admission and HPR 1020
Formerly HPR 180 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.

Programming Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 11

Certificate Requirements

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

SQL Coding Certificate

See list of Department Chairs on the Personnel page.

The Structured Query Language (SQL) is the programming language that is used with most database applications. Knowledge of SQL gives the student opportunities in both database and programming jobs. Most modern businesses manage their data using a database and databases are found inalmost every industry. This two course certificate introduces the student to the basics of both SQL and database design.

Total Credits: 6

Courses

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

Steering and Suspension/Brakes Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We

encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 13

Certificate Requirements

ASE 1010 - Brakes I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 110 Covers the basics of how various systems on the automobile operate, maintenance requirements, and financial concerns related to operating and maintaining an automobile.

ASE 1011 - Automotive Brake Service II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 111 Covers diagnostics, test procedures, and repair to automotive foundation braking system. This course also introduces the components, types of Antilock Braking Systems (ABS), and traction control systems of current vehicles. This course meets MLR/AST/MAST program accreditation requirements.

ASE 1040 - Suspension and Steering I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 140 Focuses on diagnosis and service of suspension and steering systems and components. This course meets MLR/AST/MAST requirements.

ASE 1041 - Suspension and Steering II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 141 Covers design, diagnosis, inspection, service of suspension, and steering systems used on light trucks and automobiles including power steering and Supplemental Restraint System (SRS) service. This course meets AST/MAST requirements.

ASE 2010 - Automotive Power and ABS Brake Systems

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 210 Covers the operation and theory of the modern automotive braking systems including the operation, diagnosis, service, and repair of the anti-lock braking systems and power assist units. This course also covers the machining operations of today's automobile brake systems. This course meets AST/MAST requirements.

ASE 2040 - Suspension and Steering III

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 240 Covers operation of steering and power steering systems. It will also include different alignment types and procedures.

ASE 2182 - Internship: General (Summer)

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 282 Emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student takes all related sponsor requirements in (STS) Service Training Standards (General Motors) or ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Wildland Firefighter Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Wildland Firefighter Certificate will prepare students for a career with local and state fire departments and federal land management agencies (US Forest Service, etc.). Additionally, this certificate is designed for individuals with a general interest in wildland fire suppression; volunteer firefighters who would like to expand their knowledge and career opportunities; and currently enrolled students with an interest in supplementing their degrees.

Program Description

The Wildland Firefighter Program will provide students with a solid foundation in theory and application of wildland fire suppression concepts. This certificate will also provide training that exceeds the minimum requirements for prospective wildland firefighters as established by the National Fire Protection Association and the National Wildfire Coordinating Group.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

Successful completion of all course work with a grade of "C" or better.

Total Credits: 12.75

Certificate Requirements

FSW 1000 - S-190 Introduction to Wildland Fire Behavior

Credit(s): 1
Lecture Hour(s): 1
Formerly FSW 100 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 FSW 1001 - S-130 Firefighting Training.

FSW 1001 - S-130 Firefighting Training

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly FSW 101 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 1002 - S-131 Firefighter Type I

Credit(s): 0.50
Lecture Hour(s): 0.50
Formerly FSW 102 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 1003 - D-110 Dispatch Recorder with Introduction to Ross

Credit(s): 1
Lecture Hour(s): 1
Formerly FSW 103 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 1004 - I-100 Introduction to ICS

Credit(s): 0.25
Lecture Hour(s): 0.25
Formerly FSW 104 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 140 - S-200 Initial Attack Incident Commander **Credit(s): 1**
- FSW 141 - S-203 Introduction to Incident **Credit(s): 2**
- FSW 142 - S-211 Portable Pumps and Water Use **Credit(s): 1.5**

FSW 1043 - S-212 Wildfire Chain Saws

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly FSW 143 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 155 - I-200, IS-200, Q-436 Basic ICS: ICS for Single Resources and Initial Action Incidents **Credit(s): 1.5**

Programs of Study (A-Z)

AAS Nursing

See list of Department Chairs on the Personnel page.

Program Description

The Associate Degree Nursing (ADN) program teaches you skills of direct patient care that you can apply in any healthcare setting. It offers theoretical and applied instruction in classrooms, simulated laboratories, and clinical settings. It integrates education in adult, gerontological, obstetric, pediatric, and psychiatric-mental health nursing. Your clinical learning will take place in diverse types of institutions.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The ADN program prepares you to provide safe, therapeutic, and competent nursing care in hospitals and other healthcare settings. You may also work as an entry level patient-care manager.

Total Credits: 70.5

General Education and Program Prerequisites

First (12 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 1010 - Biology Foundations: Prep for Anatomy & Physiology and Microbiology

Credit(s): 2
Lecture Hour(s): 2
Introduces foundational concepts for Human Anatomy and Physiology as well as Microbiology including macromolecules and cell structures, functions, and processes. This is a non-laboratory course.

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Second (12 credits)

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3

Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

1 Course must be completed within 10 years of entrance into the program

2 BIO 1111 will be accepted for credit

3 BIO 1010 and BIO 2101 are offered in a 5-week and 10-week format to complete in one semester

Program Course Schedule (First Year)

Apply to the Program – March 1st to May 1st For Fall semester, online at Pueblo Community College Nursing

Application Admission Requirements:

Students are required to complete additional admission requirements including aptitude testing and medical requirements as identified on the program website.

First Fall (12 credits)

NUR 1009 - Fundamentals of Nursing

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing or Psychiatric Technician programs.

Corequisite(s): Nursing: NUR 1012, HPR 1010, MAT 1120. Psych Tech: NUR 1012.
Formerly NUR 109 Examines the fundamental concepts necessary for safe, person-centered nursing care to a diverse patient population while integrating legal and ethical responsibilities. This course introduces caring, critical thinking/clinical judgment, the nursing process, quality improvement, and communication used when interacting with patients and interdisciplinary team through evidence-based nursing practice. The 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 1012 - Basic Concepts of Pharmacology

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing or Psychiatric Technician programs.
Corequisite(s): Nursing: NUR 1009, HPR 1010, MAT 1120; Psych Tech: NUR 1009.
Formerly NUR 112 Provides an overview of the basic principles of pharmacology including major drug classifications and prototypes of commonly used medications. This course introduces central concepts including safety and quality improvement practices in the administration of medications, person centered teaching, and variations encountered when administering medications to diverse population across the lifespan.

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

First Spring (13 credits)

NUR 1006 - Medical Surgical Nursing Concepts

Credit(s): 7
Lecture Hour(s): 3.40
Vocational Lab Hour(s): 0.90
Clinic Hour(s): 9.90

Prerequisite(s): Admission to Nursing Program and completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 1050 or permission of the program director.
Formerly NUR 106 Builds on fundamentals and introduces basic medical surgical nursing concepts, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered care to a developmentally and culturally-diverse adult patient population. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the nurse. The application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings.

NUR 1050 - Maternal-Child Nursing

Credit(s): 6
Lecture Hour(s): 3.30
Vocational Lab Hour(s): 2.10
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing program and completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 1006 or permission of the program director.
Formerly NUR 150 Provides the theory of maternal-child nursing, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, family-centered nursing care to childbearing families and children that is developmentally and culturally appropriate. This course incorporates evidence-based practice, standards of practice, quality improvement, and legal and ethical responsibilities. The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of maternal-child and pediatric clinical settings.

Program Course Schedule (Second Year)

Second Fall (12.5 credits)

NUR 2006 - Advanced Concepts of Medical-Surgical Nursing I

Credit(s): 6.50
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 9

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of the program director.
Formerly NUR 206 Builds on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse, high acuity medical surgical adult patients. The course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse. The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

NUR 2011 - Psychiatric-Mental Health Nursing

Credit(s): 4
Lecture Hour(s): 2.70
Clinic Hour(s): 3.90

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of program director.
Formerly NUR 211 Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders.

NUR 2012 - Pharmacology II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing program and successful completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 2011 or permission of the program director.
Formerly NUR 212 Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence- based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

Second Spring (9 credits)

NUR 2016 - Advanced Concepts of Medical Surgical Nursing II

Credit(s): 5
Lecture Hour(s): 2.30
Clinic Hour(s): 8.10

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2006 and NUR 2012 or permission of the program director.
Formerly NUR 216 Continues to build on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical surgical conditions. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse in high acuity settings. The application of knowledge and skills occurs in a variety of clinical settings.

NUR 2030 - Transition to Professional Nursing Practice

Credit(s): 4
Lecture Hour(s): 1.60
Clinic Hour(s): 7.20

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2016 or permission of the program director.
Formerly NUR 230 Provides an integrative experience applying all dimensions of the professional nurse when caring for diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed in this seminar and practice capstone course. Leadership and the management of multiple patients are emphasized. The application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

Accounting, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Accounting program offers training in theory and practice of modern accounting. It places emphasis on reasoning to make logical accounting policy decisions. Learn to use state-of-the-art equipment and software used in the industry. Gain valuable on-the-job training through the internship experience.

Career Options

The AAS in Accounting prepares you for a career in entry-level accounting or upper-level bookkeeping positions.

Total Credits: 61

Semester One, Fall (16 credits)

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ACC 1021 - Accounting Principles I

Credit(s): 4
Lecture Hour(s): 4
Formerly ACC 121 This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

Semester Two, Spring (16 credits)

ACC 1022 - Accounting Principles II

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): ACC 1021
Formerly ACC 122 This course continues the application of accounting principles to business organizations. Major topics include corporate equity and debt financing, investments, cash flow statements, financial analysis, budgeting, cost and managerial accounting.

ACC 1025 - Computerized Accounting

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 125 Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

Semester Three, Fall (13 credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ACC 2011 - Intermediate Accounting I

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): ACC 1012 or ACC 1022
Formerly ACC 211 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. Focus is 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.

BUS 1016 - Personal Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 116 Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

Semester Four, Spring (16 credits)

BUS 2026 - Business Statistics

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 226 Focuses on statistical study, sampling, organizing and visualizing data, descriptive statistics, probability, binomial distributions, normal distributions, confidence intervals, linear regression, and correlation. Intended for business majors.

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1031 - Income Tax

Credit(s): 3
Lecture Hour(s): 3
Formerly ACC 131 Introduces basic concepts of federal income taxation and tax administration with emphasis on taxation of individuals and sole proprietorships.

ACC 2012 - Intermediate Accounting II

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): ACC 2011
Formerly ACC 212 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 2087 - Cooperative Education

Credit(s): 3
Internship Hour(s): 9
Formerly ACC 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

MAN 2016 - Small Business Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 216 Examines the elements necessary for the successful formation of a new small business and to

enhance the skills of those already involved in the operation of a small business. This course includes the development of a complete small business plan.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

Advanced Emergency Medical Technician

See list of Department Chairs on the Personnel page.

Career Opportunities

The EMS program prepares you for a career in the pre-hospital health care field as an Emergency Medical Technician at either the Basic, Intermediate, or Paramedic level. Career opportunities include ambulance service, fire service, tactical EMS, critical care transport, and emergency department technician. If you graduate with an AAS degree, you have additional career opportunities in administration and management in the pre-hospital field.

Program Requirements

Entrance Requirements

To enroll in the EMT, EMT-Intermediate, or Paramedic programs, you must be at least 18 years of age, have all current immunizations, and be able to meet the requirements of the Colorado Department of Public Health and Environment EMTS Division Functional EMT Job Description. For enrollment into the AEMT program you must be a current EMT in Colorado. For the Paramedic program, you must have a current Colorado EMT certification, an EMT IV endorsement, successfully complete all pre-screening examinations, and prerequisites, and obtain department approval.

Total Credits: 10

AEMT Option Requirements

Prerequisite Courses for Program Admission **Credit(s): 10**

EMS 1125 - AEMT Fundamentals

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): College readiness in English
Formerly EMS 131 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 1127 - AEMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 1125
Formerly EMS 127 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 1133 - AEMT Medical Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 133 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 1135 - AEMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 135 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 1071 - AEMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): EMS 1125
Formerly EMS 171 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.

Advanced Emergency Medical Technology AAS

See list of Department Chairs on the Personnel page.

Program Description

This program prepares students with the knowledge and skills needed for employment in a health care facility or in prehospital patient care. It will also prepare students to continue their education in more advanced careers in EMS, nursing and other health care fields. Upon successful completion of the CNA, EMT, and AEMT portions of the program, students will be eligible to take the certifying exams, and with successful Completion of the exam, may apply for state certification at that level of training.

All Health & Public Safety programs have essential functions you must be able to perform for you to be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

Career opportunities include ambulance service, skilled nursing facilities, critical care transport, and emergency department technician. If you graduate with an AAS degree, you have additional career opportunities in administrative and management in the pre-hospital field.

Total Program Credits -- 64

All courses must be completed with a grade of "C" or higher.

Total Credits: 65

First (16 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

NUA 1001 - Nurse Aide Health Care Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly NUA 101 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 1070 - Nurse Aid Clinical Experience

Credit(s): 1
Clinic Hour(s): 1.5

Formerly NUA 170 Applies knowledge and skill gained in NUA 101 to patient care. Pass/fail grading (F).

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Second (14 credits)

HPR 1039 - Medical Terminology

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 139 Discusses the structure of medical terms with emphasis on using and combining prefixes, roots and suffixes. This class includes terms related to major body systems, oncology, and psychiatry, as well as clinical laboratory and diagnostic procedures and imaging, and provides accepted pronunciation and spelling of terms used in the healthcare setting.

EMS 1015 - Emergency Medical Responder

Credit(s): 3
Lecture Hour(s): 3
Formerly EMS 115 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.

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Third (12 credits)

EMS 1021 - EMT Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly EMS 121 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 1022 - EMT Medical Emergencies

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 122 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 1023 - EMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 123 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 1024 - EMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 124 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 1070 - EMT Clinical

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly EMS 170 Provides the EMT student with the clinical experience required for initial certification and some renewal processes.

Fourth (10 credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on

laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

HPR 1050 - Basic EKG Interpretation

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): EMT cert or higher, or department chair approval
Formerly HPR 190 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.

Fifth (13 credits)

EMS 1127 - AEMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 1125
Formerly EMS 127 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 1132 - EMS Intravenous / Intraosseous Therapy

Credit(s): 2
Lecture Hour(s): .25
Vocational Lab Hour(s): 1.9
Clinic Hour(s): 1

Prerequisite(s): Current Colorado Certification as EMT or Department Chair Approval
Formerly EMS 132 Focuses on cognitive and skill practice for the Colorado scope of practice for the IV / IO endorsement as outlined in the Intravenous / Intraosseous Therapy and Medication Administration course curriculum.

EMS 1125 - AEMT Fundamentals

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): College readiness in English
Formerly EMS 131 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 1133 - AEMT Medical Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 133 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 1135 - AEMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 135 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 1071 - AEMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): EMS 1125
Formerly EMS 171 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.

Notes

[1] Successful completion of courses, student is eligible to sit for Nurse Aide Certification exam

[2] Successful completion of courses, student is eligible to sit for the EMT certification exam

[3] Successful completion of courses, student is elgibile to sit for the Advanced EMT certification exam

Advanced Paramedic Practitioner BAS

Program Description

See list of Department Chairs on the Personnel page.

PCC's Advanced Paramedic Practitioner Bachelor of Applied Science is designed for certified paramedics who have completed an Associate Degree in Emergency Medical Services or Paramedicine from an accredited college and wish to continue their education and obtain a Bachelor of Applied Science degree.

This program provides a student centered on-line learning environment meant to enhance career opportunities. Students will engage in self-directed learning activities and gain specialized knowledge in critical care, community and behavioral paramedicine.

Career Information

The Advanced Paramedic Practitioner degree opportunities may include working as a critical care paramedic, a community paramedic and in behavioral health in a variety of settings including mental health facilities, drug rehab, hospitals, clinics and in community paramedic programs.

The Advanced Paramedic Practitioner BAS program admission requirements and application are posted on Pueblo Community College EMS BAS webpage.

Total Program Credits -- 120

Students will receive 65 credits from AAS degree and earn 55 BAS credits. All program students must have a minimum of 30 PCC institutional credits.

Students may apply to start the program any semester.

Total Credits: 120

First (16 credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social

institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

HPR 3001 - Communications in Health Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 301 Develops professional written and oral communication plans to ensure effective patient-centered outcomes between health care professionals, patients and caregivers.

HPR 4011 - Leadership and Management in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 411 Provides a general overview of the concepts and theories relative to leadership and management in health care settings. This course covers concepts in decision-making models, ethical reasoning skills, effective communication, interpersonal and inter-professional relationships, management of human and fiscal resources, risk management, and quality improvement.

OR

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

Second (12 credits)

HPR 4003 - Critical Review of Healthcare Research

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program

Formerly HPR 403 Covers the identification, evaluation, and analysis of scientific published literature necessary to identify healthcare best practices, the formulation of research for clinical questions for effective participation in healthcare discussions and evidence-based decision-making.

EMS 3012 - Trauma Informed Care and Assessment

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 3011
Formerly EMS 312 Provides an overview of trauma-informed approaches, covering the types of trauma experienced, the impact of trauma on individuals, and principles of trauma-informed care.

EMS 3011 - Motivational Interviewing for EMS

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s):
Admission to the Advanced Paramedic Practitioner BAS program

SOC 2031

Formerly EMS 311 Introduces the Motivational Interviewing (MI) concept as a client-centered and conversational method of communication designed to assist helping professionals to address clients' ambivalence to change.

EMS 3010 - Clinical Assessment and De-escalation Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 3011, EMS 3012
Formerly EMS 310 Introduces several assessment tools and techniques for assessing a client in a behavioral setting. The course will also introduce de-escalation techniques aimed at calmly communicating with an agitated client in order to understand, manage, and resolve their concerns.

Third (14 credits)

HPR 3010 - Quality Improvement in Health Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 310 Introduces approaches to assessing risk and improving health care quality through the practice of Continuous Quality Improvement (CQI). Course explores the conceptual framework for quality improvement, a focus on quality improvement as a strategy to manage cost, boost productivity, and enhance quality outcomes in various health care settings. The course will focus on both conceptual understanding and experiential learning.

EMS 4025 - Fundamentals of Advanced Paramedic Practice

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): Admission to the Advanced Paramedic Practitioner BAS program
Formerly EMS 425 Presents advanced techniques for patient assessment and management. The course covers analysis of lab values associated with electrolytes, pharmacokinetics, and pulmonary gasses as they pertain to the pathophysiology of disease and patient management.

EMS 4033 - Advanced Paramedic Medical Care

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): EMS 4025
Formerly EMS 433 Provides advanced knowledge on assessing and managing patients with acute medical conditions and chronic medical conditions that have progressed in severity. This course focuses on in-depth pathophysiology of disease, advanced assessment, pharmacologic, and management required for patient care.

EMS 4035 - Advanced Paramedic Trauma Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 4025 and EMS 4033
Formerly EMS 435 Provides students with the advanced knowledge required to assess and manage patients with acute medical conditions and chronic medical conditions that have progressed in severity. In-depth pathophysiology of disease will be presented in conjunction with the advanced assessment, pharmacologic and management knowledge required to care for patients.

Fourth (13 credits)

EMS 3030 - Community Advocacy and Outreach

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to the Advanced Paramedic Practitioner BAS program
Formerly EMS 330 Introduces the role and function of the Community Paramedic (CP). The course provides insight into Community Paramedic's specific role and function as a member of a health care team and part of a community. The course identifies the components of the role, defines the role, and explains "scope of service" for the position of CP. The role of the CP as an advocate for clients in the community is discussed.

EMS 3031 - Community Assessment

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 3030
Formerly EMS 331 Introduces students to the role of the Community Paramedic (CP) as a member of the health care team in community assessment. The course presents concepts related to mapping community health care services, describing the demographics of the community, and assessing their impact on the health of the potential patients. The course will provide an understanding of community health services in order to understand the health care needs in the community.

EMS 4030 - Care and Prevention Development Strategies

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 3030 and EMS 3031
Formerly EMS 430 Introduces the responsibilities of the Community Paramedic (CP) for gathering appropriate patient/client information and maintaining accurate records, including documentation of encounters between the CP and the patient/client. The course presents information about the CP's role in assessing health care needs and appraising health care conditions.

EMS 4089 - Capstone

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): Admission to the Advanced Paramedic Practitioner BAS program
Formerly EMS 489 Provides students opportunity in a clinical setting for gathering and reviewing patient history, developing a care plan, providing appropriate treatment or counseling to the patient, and determining appropriate patient disposition.

[1] Courses taught in the first 8 weeks of the semester

[2] Courses taught in the second 8 weeks of the semester

Agricultural Production Management

See list of Department Chairs on the Personnel page.

Program Description

This certificate povides an overview of business in the agricultural industry. Students will gain foundational knowledge in farm and ranch management, marketing, and finance. The courses within this certificate are applicable to the Associate of Science degree in Soil and Crop Production, a Guaranteed Transfer degree between Colorado Community Colleges and Universities.

Total Credits: 18

See list of Department Chairs on the Personnel page.

Program Description

This certificate provides an overview of business in the agricultural industry. Students will gain foundational knowledge in farm and ranch management, marketing, and finance. The courses within this certificate are applicable to the Associate of Science degree in Soil and Crop Production, a Guaranteed Transfer degree between Colorado Community Colleges and Universities.

Certificate Requirements

AGE 1102 - Agriculture Economics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly AGE 102 Focuses on economic principles and decision-making by consumers, firms, and government with emphasis on their application to the food, fiber, and natural resource sectors of the economy. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

AGE 2105 - Farm and Ranch Management

Credit(s): 3
Lecture Hour(s): 3
Formerly AGE 205 Provide students with practical experience in applying principles of economics, business, marketing, and finance to the management of a farm/ranch operation.

AGE 2108 - Agricultural Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly AGE 208 Emphasizes principles of finance and their application to agriculture and agribusiness, including the time value of money, net present value analysis, interest, credit lending institutions, financial statements, and financial ratios.

AGE 2110 - Agriculture Marketing

Credit(s): 3
Lecture Hour(s): 3
Formerly AGE 210 Studies the agricultural marketing system and methods of marketing crops and livestock. Emphasizes hedging with futures options.

AGR 2024 - Integrated Ranch Management

Credit(s): 3
Lecture Hour(s): 3
Formerly AGR 224 Provides training in management pertaining to the economics of a ranching enterprise. Topics include principles of system management, resource inventory and management, ranch decision making, nutrition, selection, record keeping, financial management, and marketing.

- Elective: Any course with AGR, AGE, AGB, AGY, or HLT prefix. **Credit(s): 3**

Air Conditioning Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We

encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 6

Certificate Requirements

ASE 2064 - Introduction Automotive Heating and Air Conditioning

Credit(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 264 Covers basic operation of heating and air conditioning components. This course meets MLR/AST/MAST requirements.

ASE 2065 - Heating and Air Conditioning Systems

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 265 Emphasizes lecture and related laboratory experiences in the diagnosis and service of vehicle heating and air conditioning systems and their components.

ASE 2182 - Internship: General (Summer)

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 282 Emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student takes all related sponsor requirements in (STS) Service Training Standards (General Motors) or ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Anthropology, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Anthropology prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a bachelor's degree in anthropology. A degree in anthropology offers many

career and educational opportunities. Careers in anthropology include museum education, field and medical research, higher-education teaching, public health, environmental assessment, community studies coordination, ethnic and cultural studies and field studies in archaeology.

Program Description

Anthropology is the study of the evolution of human society, life and culture. Specifically, anthropology answers the questions of how people lived, what they thought and how they interacted with their particular environment. Studying how societies have developed and changed from the past to the present, anthropology provides a critical understanding of the world today and how the future world may evolve.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with Designation in Anthropology, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (32-33 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031

Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3** and a GT Pathways Writing course (GT-CO3) *

Mathematics (3-4 Credits)

- One GT Pathways course (GT-MA1), prefer MAT 1260

University of Colorado Denver

- University of Colorado Denver requires either: MAT 1260 **or** MAT 1340

Western State Colorado University

- Western State Colorado University requires MAT 1340

Natural and Physical Sciences (8 Credits)

- Select two GT Pathway (GT-SC1) *

Arts and Humanities (6 Credits)

Select two GT Pathway courses from any category:

- Arts and Humanities (GT-AH1) *
- Literature and Humanities (GT-AH2) *
- Ways of Thinking (GT-AH3) *
- Foreign Languages (GT-AH4) *

Social and Behavioral Sciences (6 Credits)

(Select two GT Pathway courses from any category):

- Economics or Political Systems: (GT-SS1) *
- Geography (GT-SS2) *
- Human Behavior, Culture, or Social Frameworks: (GT-SS3) *

History (3 Credits)

- Select one GT Pathways History course (GT- HI1) *

Additional Required Anthropology Courses (22 Credits)

Please Note: Additional ANT courses beyond the four courses (13 credit hours) identified above may not count toward the Anthropology major at the receiving 4-year institutions.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1001 - Cultural Anthropology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 101 Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1003 - Introduction to Archaeology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 107 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, the works of selected archaeologists, and major archaeological theories. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English
Formerly ANT 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (3 Credits)

Select one GT Pathway course from any category:

- Arts and Humanities (GT-AH1) *
- Literature and Humanities (GT-AH2) *
- Ways of Thinking (GT-AH3) *
- Foreign Languages (GT-AH4

ANT course (3 Credits)

- Select one additional GT Pathway course: Social and Behavioral Science (GT-SS3) *

Social and Behavioral Sciences (3 Credits)

(Select on GT Pathway course from any category):

- Geography (GT-SS2) *
- Human Behavior, Culture, or Social Frameworks: (GT-SS3) *

Electives (5-6 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Colorado State University-Ft. Collins (B.A. Anthropology)
- Fort Lewis College (B.A. Anthropology)
- Metropolitan State University of Denver (B.A. Anthropology)
- University of Colorado, Boulder (B.A. Anthropology)
- University of Colorado, Colorado Springs (B.A. Anthropology)
- University of Colorado, Denver (B.A. Anthropology)
- University of Northern Colorado (B.A. Anthropology)
- Western State Colorado University (B.A. Anthropology)

Applied Technology, AAS

See list of Department Chairs on the Personnel page.

Program Description

PCC offers the AAS degree in Applied Technology as part of a statewide consortium of community colleges and Area Vocational Technical Schools (AVTS) consortium and other Colorado public community colleges.

To attain the degree, you must complete the technical course work for a state-approved Career and Technical Education Certificate at one of the following AVTS's: Delta Montrose Area Vocational Technical Center, Emily Griffith Opportunity School, San Juan Basin Area Vocational Technical School and T.H. Pickens Technical Center.

You will complete the general education and other degree requirements at PCC. Course work from the AVTS will be credited to your transcript when you complete the requirements of both institutions.

Program Requirements

You must comply with the regulations and requirements related to admissions and attendance at each institution.

Minimum Requirements for This Degree Include:

a. Minimum of 60 credit hours of course work.
b. Cumulative GPA of 2.0 **or** higher.
c. General Education course of 15-18 semester hours
d. Additional requirements of at least 42 semester hours:
   * From an individual program with current state approval a one of four AVTS's
   * If the program certificate is less than 42 semester hours, then the program certificate hours plus elective credit hours from Pueblo Community College will be used for the total of at least 42 semester hours
e. Minimum of 15 semester credits earned at Pueblo Community College.

Total Credits: 60

Degree Requirements

AVTS Certificate (42-45 Credits)

General Education Courses (15-18 Credits)

The below general education courses must be selected from the general education courses listed in the AGS, AA or AS general education sections of this catalog.

- English/Speech **Credit(s): 3**
- Humanities **Credit(s): 3**
- Mathematics **Credit(s): 3**
- Natural Science **Credit(s): 3**
- Social Science **Credit(s): 3**

Art History, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in Art History prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) or Bachelor of Fine Arts (BFA) degree in Art or Art History. Students who opt for the Bachelor of Arts in Art History can choose to work in several occupational

fields including museums, galleries, government, research and academia. Once a BA or BFA is completed, students may pursue a higher or graduate degree in Art, if interested.

Program Description

This program introduces the student to the field of Art History and includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Art History. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Art History will be ready to complete the last half of a BA or BFA in Art History at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31-32 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3** and a GT Pathways Approved (GT-CO3) *

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GT-MA1) *, prefer MAT 1240: Mathematics for the Liberal Arts

Natural and Physical Sciences (7 or 8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1, GT-SC2) *. One of these courses must include a laboratory component (GT-SC1) *

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities Courses from any category (GT-AH1, GT-AH2, GT-AH3, GTAH4) *, **EXCEPT** those courses listed in the additional required courses section below.

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT- SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Art History Courses (18 Credits)

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1201 - Drawing I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 121 Investigates the various approaches and media that students need to develop drawing skills and visual perception.

ART 1002 - Visual Concepts 2-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 131 Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

ART 1003 - 3-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 132 Introduces the fundamentals of three-dimensional design, form, and space. The course applies the elements and principles of design to three-dimensional problems.

ART 1113 - Art History

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 207 Introduces the concepts necessary to understand modern visual art, with an emphasis on world art of the 20th century. This course surveys world art of the 20th century, including Modernism to Post-Modernism. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

Electives (10-11 Credits)

Determined by transferring institution;

Note: Students planning to transfer to Colorado State University-Fort Collins will be required to complete a 200-level foreign language for completion of the BA in Art History.

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Colorado Mesa University (B.F.A. Art, Art History concentration)
- Colorado State University-Ft. Collins (B.A. Art, Art History concentration)
- Colorado State University-Pueblo (B.A. Art; Art History Emphasis
- Metropolitan State University of Denver (B.A. Art History, Theory, and Criticism)
- University of Colorado, Boulder (B.A. Art History)
- University of Colorado, Colorado Springs (B.A. Visual and Performing Arts, Art History option)
- University of Colorado, Denver (B.A. Fine Arts, Art History emphasis)
- University of Northern Colorado (B.A. Art and Design, Art History emphasis)
- Western State Colorado University (B.A. Art, Art History and Theory emphasis)

Associates of Engineering Science

See list of Department Chairs on the Personnel page.

Program Description

The General Engineering program at Pueblo Community College is designed for students interested in studying for the engineering profession through the community college pathway. This pathway prepares students for the completion of a 2-year Associate of Engineering Science (AES) degree which meets the requirements of the statewide engineering articulation agreement with Colorado School of Mines general four-year engineering Bachelor's Degree programs. Completion of the Associate's Degree completes the first two years of an engineering Bachelor's Degree and guarantees transfer at the junior level.

Program Requirements

Refer to the general requirements for the Associate of Science degree listed above. Some pre-engineering courses have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for specific course prerequisites.

General Engineering (Colorado School of Mines)

Total Credits: 64

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

English/Communication (6)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (24)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores

Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2561 - Differential Equations with Engineering Applications: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2430 or MAT 2431
Formerly MAT 261 Introduces ordinary differential equations. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms with an additional emphasis on engineering applications and problem solving. Appropriate technology related to the

mathematical field may be used as a component of the course. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (14)

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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.

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Social and Behavioral Sciences (3)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate

Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

History (3)

HIS 2015 - 20th Century World History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 247 Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states since the late nineteenth century. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1category. GT-HI1

Arts and Humanities (6)

- List: https://www.mines.edu/registrar/cccs-hass-courses/ **Credit(s): 3**

PHI 2018 - Environmental Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 218 Analyzes theories of the value of the natural world. Topics may 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; and the connection between moral and political values and economic policies. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Required Electives (8)

EGG 1040 - Engineering Projects

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): MAT 1340 or higher
Formerly EGG 140 Teaches how to engage community stakeholders and use traditional research practices to identify, define, articulate, and design technical solutions to open-ended problems. The course utilizes teamwork on a semester-long iterative design project.

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include

wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Automatic Transmissions Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 6

Certificate Requirements

ASE 2050 - Automatic Transmission/Transaxle Service

Credit(s): 1
Lecture Hour(s): 1

Formerly ASE 250 Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle. This course meets MLR/AST/MAST requirements.

ASE 2051 - Automotive Transmission and Transaxle Repair

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly ASE 251 Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation including removal, installation, and replacement of transmission/transaxle and components. This course meets AST/MAST requirements.

ASE 2052 - Advanced Automatic Transmissions/Transaxles O/H

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 252 Covers the diagnosis, repair, and rebuild of automatic transmissions and transaxles including the hydraulic, electronic, and mechanical components. This course meets MAST requirements.

Bachelor of Science in Nursing

See list of Department Chairs on the Personnel page.

The PCC RN to BSN Program is designed for licensed Registered Nurses who have completed an Associate Degree in Nursing (ADN) in a nationally accredited nursing program and for students enrolled in an accredited ADN program. The RN to BSN provides a student centered online learning environment meant to enhance career opportunities for RNs who wish to continue their education and obtain a Bachelor of Science Degree in Nursing (BSN).

Career Information

The BSN program prepares RNs to navigate the competitive nursing work arena through the integration of current knowledge, research, and information literacy, application of information management technology, demonstration of leadership skills, and advocacy at local, state, national and global levels for patients and for the nursing profession with regard to healthcare policy. BSN prepared nurses are able to meet the increasing professional challenges of healthcare in all settings.

Application/Admission

- Fall start: Application deadline of July 31

  Spring start: Application deadline of November 30

  Summer start: Application deadline of March 31

- Students must have graduated from an accredited Associate Degree in Nursing program or be in good standing in the ADN Program.

- Submission of unofficial ADN transcripts are required.

Program

- 120 credits comprise the PCC Bachelor of Science in Nursing degree.
- Block transfer accepted of up to 71.5 credits from accredited ADN Program
- Unencumbered RN License & Current BLS/CPR required for NUR 409 and NUR 410
- 18 General Education credits are required
- 30.5 credits of baccalaureate nursing coursework complete the program

Graduation

- Students may use a combination of transcribed credits and bachelor level course work to obtain the 120 required credits. Transferred BSN courses will be evaluated individually for applicability to the PCC RN to BSN Program.
- The granting of the BSN degree from PCC requires a minimum of 30 credits completed at the college.
- If electives are necessary to achieve the 30 graded credits at PCC they must be taken at the 300/400 level.

BSN applicants should arrange an advising appointment with the PCC Nursing Department.

Please call 719-549-3409.

Total Credits: 120

First (9 credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

GT-HI1 - History Course **Credit(s): 3**

Second (9 credits)

- GT-AH1, AH2, AH3, or AH4 - Arts & Humanities Courses **Credit(s): 6**
- GT-SS1, SS2, SS3 - Social Sciences **Credit(s): 3**

BSN Core Curriculum Fall Start

Fall (6 credits)

NUR 3001 - Integration into Baccalaureate Nursing Practice

Credit(s): 3
Lecture Hour(s): 3
Formerly NUR 301 Explores professional nursing practice at the baccalaureate level. The course focuses on knowledge and understanding of the professional nursing standards and the nursing role at a baccalaureate level.

NUR 3002 - Trends in Nursing Practice

Credit(s): 3
Lecture Hour(s): 3
Formerly NUR 302 Examines current issues that nurses encounter in the health care environment including their roles and responsibilities within the nursing profession.

Spring (6 credits)

NUR 3003 - Nursing Research / Evidence Based Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002, MAT 1260
Formerly NUR 303 Provides opportunity to analyze concepts associated with nursing research, collection, and analysis of data with emphasis on integration of evidenced-based practice within nursing. The course provides techniques for critiquing published research.
AND

NUR 3004 - Informatics / Healthcare Technology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 304 Explores concepts and applications related to the nurse's role in utilizing healthcare informatics involving patient care technology. This course will explore the impact of information management systems on the delivery of patient care, healthcare teams, and health outcomes.

NUR 3005 - Emergency Preparedness

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 305 Focuses on the nurse's roles and responsibilities in the most common types of disasters and how the nurse can deliver effective care in various emergency situations.

NUR 3006 - Gerontology Nursing

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002

Formerly NUR 306 Focuses on optimizing health for the aging client within the framework of the nursing process. The course places emphasis on supporting the unique needs of the aging population.

NUR 3007 - Behavioral Health

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001 , NUR 3002
Formerly NUR 307 Provides an overview of behavioral health promotion for individuals, families, and populations with behavioral health concerns. The focus of the course will explore the nurse's impact on behavioral health trends.

Summer (3 credits)

NUR 3004 - Informatics / Healthcare Technology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 304 Explores concepts and applications related to the nurse's role in utilizing healthcare informatics involving patient care technology. This course will explore the impact of information management systems on the delivery of patient care, healthcare teams, and health outcomes.

NUR 3005 - Emergency Preparedness

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 305 Focuses on the nurse's roles and responsibilities in the most common types of disasters and how the nurse can deliver effective care in various emergency situations.

NUR 3006 - Gerontology Nursing

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 306 Focuses on optimizing health for the aging client within the framework of the nursing process. The course places emphasis on supporting the unique needs of the aging population.

NUR 3007 - Behavioral Health

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001 , NUR 3002
Formerly NUR 307 Provides an overview of behavioral health promotion for individuals, families, and populations with behavioral health concerns. The focus of the course will explore the nurse's impact on behavioral health trends.

Fall Semester (6.5 credits)

NUR 4008 - Legal and Ethical Issues Related to Professional Nursing Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002
Formerly NUR 408 Emphasizes the ethical and legal obligations of professional nursing practice. The focus is on values clarification, ethical theory, and ethical decision-making models. This course also covers legal issues related to healthcare.

NUR 4009 - Leadership in the Nursing Profession

Credit(s): 3.5
Lecture Hour(s): 2.75
Clinic Hour(s): 1.5

Prerequisite(s): NUR 3001, NUR 3002, RN license
Formerly NUR 409 Focuses on the role of the professional nurse as a leader within healthcare. The course integrates concepts needed to assume leadership and management positions in the healthcare environment.

Spring (9 credits)

NUR 4010 - Community Health Nursing/Practicum

Credit(s): 6
Lecture Hour(s): 4.5
Clinic Hour(s): 3

Prerequisite(s): NUR 3001, NUR 3002, RN license
Formerly NUR 410 Focuses on the role of the professional nurse in community-based practice settings, with an emphasis placed on health promotion, prevention, and optimal wellness of the community.

NUR 4011 - Senior Seminar

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): NUR 3001, NUR 3002, RN license
Formerly NUR 411 Integrates theory into practice by building on previous concepts and knowledge.

Notes

1 Prerequisites to all subsequent 300 & 400 level BSN courses

2 Unencumbered RN license required

3 Pre-requisite course MAT 135 required

Note: Accepted applicants are required to complete a background check and drug screen prior to registering for NUR 409 and NUR 410, as both courses have a required practicum at a clinical site.

A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into or continuation with the program.

Barber Endorsement

See list of Department Chairs on the Personnel page.

The Barbering Crossover Certificate is designed for Licensed Cosmetologists to learn the remaining skills that Barbers know they can carry a dual license in the State of Colorado. The program includes techniques in men's hair cutting, men's facials, shaving, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on manikins and the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

Total Credits: 3

COS

Students wnting to obtain a Barbering License by completing the Barbering Crossover Certificate will have to have their Cosmetology License.

Core Curriculum Summer Semester (3 credits)

BAR 1007 - Introduction to Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 107 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 1008 - Intermediate Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 108 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 2007 - Advanced Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 207 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.

Barbering Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Barbering program teaches students job entry skills, customer communication, and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, hair coloring techniques, chemical texture, hairstyling, hair cutting, facials, shaving, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field. Students can choose from the following:

Total credits: 53

Program requirement: 3

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

Core Curriculum: 50

Summer Semester: 12

BAR 1007 - Introduction to Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 107 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 1008 - Intermediate Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 108 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 2007 - Advanced Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 207 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 1066 - Introduction to Facial Massages & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 166 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 1067 - Intermediate Facial Massage & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 167 Focuses on practical application dealing with anatomy, skin disorders, skin types and facial shapes. Students help patrons select proper skin care treatments

BAR 2066 - Advanced Facial Massage & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 266 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.

COS 1060 - Introduction to Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 160 This course covers various methods of sanitation, disinfection; and principles of workplace safety, infection control and prevention. Topics presented in this course include: classroom study of bacteriology, chemistry of cleaning versus disinfecting products that are used in the cosmetology industry, and terminology dealing with infection control.

COS 1061 - Intermediate I: Disinfection, Sanitation & Safety

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 161 This course focuses on the theory and daily practice of proper methods of disinfection, sanitation and safety procedures as related to all phases of cosmetology. Topics presented in this course include: terminology and training of disinfection, sanitation and safety procedures, and customer service in a supervised salon setting or specialized class.

COS 2060 - Intermediate II: Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 260 This course covers infection control theory and practice of proper methods of sterilization, disinfection, sanitation, and safety procedures as related to all phases of the industry. Topics for this course include:

terminology and training of disinfection, sanitation, and safety procedures. The individual's responsibility to provide a safe work environment is practiced.

COS 2061 - Advanced Disinfection, Sanitation & Safety

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1061.
Formerly COS 261 This course covers advanced training on decontamination and safety practices in a supervised salon and/or classroom setting and primarily focuses on student preparation for the Colorado State Board Licensing Examination in decontamination and safety for all aspects of the industry. Topics for this course include: Occupational Safety and Health Administration (OSHA) requirements for schools and salons.

Fall Semester: 18

COS 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

BAR 1003 - Introduction to Hair & Scalp

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): Program admission
Formerly BAR 103 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 1010 - Introduction to Hair Coloring

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 1020 - Introduction to Hair Cutting

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 1030 - Introduction to Hair Styling

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
Combines theory with the practical application of air forming curling iron, finger waving, soft pressing and hard pressing.

BAR 1040 - Introduction to Permanent Waves & Chemical Relaxers

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 1031 - Intermediate Hair Styling

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
Focuses on the accepted methods of styling hair, air forming, finger waves, and hair pressing.

Spring Semester: 20

BAR 1011 - Intermediate Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): Program admission.
Emphasizes theory and practical application of color products, formulations of color, and level and shades of color.

BAR 1021 - Intermediate Hair Cutting

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 1041 - Intermediate Permanent Waves & Chemical Relaxers

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 2003 - Advanced Hair and Scalp

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 2011 - Advanced Hair Coloring

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 2020 - Advanced Hair Cutting

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 pratical procedures. Training is a combination of supervised work and specialized classes.

BAR 2031 - Advanced Hair Styling

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Program admission.
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 2041 - Advanced Permanent Waves &Chemical Relaxers

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Program admission.
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.

Basic Machining

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 35

Certificate Requirements

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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 2043 - Mastercam

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly MAC 243 Introduces the concepts of creating basic 2D and 3D Mastercam wireframes, building and manipulating surfaces and solids. The practices and techniques of fixture incorporation, tool pathing, and machine code generation will be discussed. Basic user interfaces and custom interface setup will be covered, as well as common file storage.

MAC 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 1030 - Conventional Lathe Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 130 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 1031 - Milling Machines & Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 131 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 2050 - Advanced Inspection Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly MAC 250 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 2003 - Introduction to CNC Operations

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 203 Introduces basic writing and editing of CNC programs. G&M codes, math, speeds feeds, production processes including basic process controls, simple fixturing, and documentation associated with manufacturing will be covered.

MAC 2008 - CNC Operations II

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 208 Further develops skills in writing and editing advanced CNC programs. G&M codes, math, speeds deeds, production processes including multi-part, process controls, fixturing, and documentation associated with manufacturing will be covered.

Basic Wildland Firefighter Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Wildland Firefighter Certificate will prepare students for a career with local and state fire departments and federal land management agencies (US Forest Service, etc.). Additionally, this certificate is designed for individuals with a general interest in wildland fire suppression; volunteer firefighters who would like to expand their knowledge and career opportunities; and currently enrolled students with an interest in supplementing their degrees.

Program Description

The Wildland Firefighter Program will provide students with a solid foundation in theory and application of wildland fire suppression concepts. This certificate will also provide training that exceeds the minimum requirements for prospective wildland firefighters as established by the National Fire Protection Association and the National Wildfire Coordinating Group.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

Successful completion of all course work with a grade of "C" or better.

Total Credits: 3

FSW 1000 - S-190 Introduction to Wildland Fire Behavior

Credit(s): 1
Lecture Hour(s): 1
Formerly FSW 100 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 FSW 1001 - S-130 Firefighting Training.

FSW 1001 - S-130 Firefighting Training

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly FSW 101 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.

Behavioral Health AAS

See list of Department Chairs on the Personnel page.

Program Description

The Behavioral Health program (BHP) is a degree option for those who are interested in human behavior, especially in clinical or health-related settings. During the program, students will study behavioral health concepts related to addiction and substance abuse, counseling, group dynamics, and human development. The Behavior Health program will also cover current trends, best practices, and up-to-date research findings. If you wish to pursue a bachelor's degree after earning your AAS, you can take advantage of a smooth transfer to UCCS for a BA in Human Services or CSU Pueblo for a BAS in Health Science and Administration.

Graduates from the behavioral health program can look forward to a rapidly growing job market that has several options.

Career Information

A behavioral health specialist is a professional who works with people who have disabilities or problems with behavior and learning impairment in a variety of settings ranging from residential to outpatient, including but not limited to department of corrections, youth residential facilities, hospitals and outpatient facilities.

Career Opportunities include:

- Behavioral health technician
- Case manager
- Peer support worker
- Community health worker
- Family support worker
- Respite care worker
- Paraprofessional counselor
- Social service liaison

Total Credits: 65

Certified Addiction Technician (CAT) courses are offered fall only. Certified Addiction Specialist (CAS) courses offered spring and summer only. **NOTE: Students must complete all CAT courses before completing CAS courses.**

1st Spring (16 credits)

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

1st Summer (7 credits)

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Fall (16.5 credits)

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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.

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

CSL 2046 - Ethical Practice in Addiction Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 245 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 course covers the Colorado Mental Health Practice Act and introduce the regulatory system and the role of Departmental of Regulatory Agencies (DORA) and Division of Behavioral Health (DBH) in the development and credentialing of the addiction counselor. Emphasis on developing ethical decision-making skills, knowledge of confidentiality and the prohibited activities in the Mental Health Practice Act become familiar with the National Association for Alcoholism and Drug Abuse Counselors (NAADAC) Code of Ethics and acquire the tools for ethical and legal practice.

CSL 2051 - Pharmacology I for Addiction Counselors

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 251 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 2068 - Addictions Counseling Skills

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 268 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 2061 - Case Conceptualization and Documentation

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 260 Provides 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, American Society of Addiction Medicine (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 2065 - Culturally Informed Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 265 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 2050 - Motivational Interviewing I

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 250 Provides the opportunity for students to learn both the model of Motivational Interviewing as well as the underlying Stages of Development model. Discussion of the populations of clients where these models have proven most effective will be discussed. Student opportunity for skills practice during class that includes skill sets specific to each stage of client readiness will be used. Presentation of assessment instruments to evaluate client readiness for change.

CSL 2054 - Trauma Informed Care

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 254 Covers the concept of trauma?informed care, an approach being adopted within human services based upon an increased awareness of the ways trauma impacts functioning. Course will define what trauma informed care is and ways a traditional treatment setting can be modified to increase the sense of safety experienced by clients. Participants will learn how to incorporate trauma?informed practices into treatment with diverse populations, such as military veterans, women, and people with co?occurring disorders.

CSL 2069 - Principles of Addiction

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 269 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.

2nd Spring (18.5 credits)

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PTE 1017 - Theoretical Concepts of Psychiatric Care II

Credit(s): 2
Lecture Hour(s): 2
Formerly PTE 117 Explores psychiatric problems common to four (4) special populations: children/adolescents, developmentally disabled individuals, aging persons, and forensic clients. The student learns to recognize and intervene with problems common to these four groups.

PTE 1020 - Application of Behavioral Health Care & Wellness

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Formerly PTE 120 Explores basic etiology, symptoms, and interventions for common behavioral and mental health disorders. Provides the opportunity for students to experience the mileu of a behavioral health care setting while providing basic care to clients experiencing common behavioral and mental health issues.

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

CSL 2055 - Infectious Diseases for Addiction Counselors

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 255 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 2052 - Advanced Pharmacology

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2051
Formerly CSL 252 Focuses on the pharmacology of alcohol and drugs such as stimulants, nicotine, cannabis, hallucinogens, designer drugs, over the counter medications, and medications for psychiatric illnesses. When combined with CSL 2051, this course meets the pharmacology training requirement for the Counselor II level of the Colorado Alcohol and Drug Abuse Program.

CSL 2053 - Cognitive Behavior Therapy

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 253 Opportunity for students to learn the model of Cognitive Behavior Therapy as it applies to addiction. Discussion of the populations of clients where this model has proven most effective. Opportunity for skills practice during class that includes clincial feeback. Minimum of 14 contact hours.

CSL 2058 - Group Counseling Skills

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 258 Provides students with the skills that allow one therapist to facilitate a group process that help a number of clients simultaneously, and provides positive peer support and pressure for recovery. This class will help the student understand the use of group therapy and be able to demonstrate the skills necessary to facilitate a therapy group. The class will focus on group process and discuss diversity within groups, as well as challenges for group leaders.

CSL 2059 - Advanced Professional and Ethical Practice

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2046
Formerly CSL 259 Addresses organizational ethics and practices, individual provider ethics and practices, and guidelines for setting up a private practice. Topics will include Office of Behavioral Health (OBH) licensing rules; OBH behavioral health rules and regulations; practice standards and guidelines; Department of Regulatory Agencies (DORA) and the Mental Health Practice Act; the purpose of and the need for written policies and procedures; professional competencies, boundaries and ethical relationships; reporting violations; employee drug testing; liability insurance; clinical versus administrative supervision; the ethical delivery of culturally-responsive care and trauma-informed care; and the need for professional self-care plan. This course will build on Ethical Practice in Addiction Treatment course.

2nd Summer (7 credits)

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 106 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.

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

CSL 2048 - Advanced Case Conceptualization

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2061
Formerly CSL 248 Covers the differences between screening and assessment and use of assessment instruments. In this course components of the clinical assessment include a biopsychosocial interview, assessing risk for self-harm, identifying cultural needs and supports, problem domains, determining stage of readiness for change and strengths of the client. Stages of treatment and systems of care will be covered along with facets of treatment planning.

CSL 2056 - Co-occurring Disorders

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 256 Presents the basics of working with clients with co-occurring mental health and substance abuse disorders. This class will address clinical assessment, treatment philosophy, strategies, and guidelines to provide integrated treatment with co?occurring disorders. It will include an introduction to the diagnostic criteria for the mental disorders most often seen with substance use disorders. The essential values, attitudes, and competencies of the counselor working with this population are discussed.

1 Indicates Guaranteed Transfer course (GT)

2 Indicates program core course

3 Requires departmental approval

4 CAT courses

5 CAS courses

Behavioral Health: Addiction Recovery AAS

Program Description

The AAS degree in Behavioral Health with an emphasis on Addiction Recovery focuses on careers as certified addiction technicians, peer recovery specialists, prevention specialists, or in residential treatment centers. Graduates are prepared to complete the remaining requirements to become Certified Addiction Technicians through the Colorado Department of Regulatory Agencies (DORA). During the program, students of the Addiction Recovery Emphasis will study behavioral health concepts related to addiction and substance abuse, counseling, group dynamics, and human development.

If you wish to pursue a bachelor's degree after earning your AAS, you can take advantage of a smooth transfer to UCCS for a BA in Human Services or CSU Pueblo for a BAS in Health Science and Administration.

Total credits: 67

First Fall: 17

BEH 1001 - Mental Health Crisis and Intervention: Preparedness and Emp

Credit(s): 3
Lecture Hour(s): 3
Focuses on the skills necessary to recognize and assess warning signs of mental health distress and crisis intervention through evidence-based practices. This course also emphasizes trauma-informed care, non-violent crisis intervention, and interventions for diverse populations. This course will prioritize preparation for becoming a compassionate and skilled crisis intervention professional.

BEH 2030 - Applied Therapeutic Communication Skills

Credit(s): 3
Lecture Hour(s): 3
Provides effective communication techniques in behavioral health settings to forge meaningful connections with clients and provide support and guidance on their journey towards improved mental health and well-being. The course focuses on establishing rapport, demonstrating empathy, and facilitation of meaningful dialogues with clients across diverse populations, settings, and presenting concerns through experiential learning and self-reflection.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

HPR 1000 - Introduction to Health

Credit(s): 3
Lecture Hour(s): 3
Formerly HPR 100 Provides foundational knowledge and skills necessary for careers in health care. This course covers basic health skills such as vital signs, hand washing, and Cardiopulmonary Resuscitation (CPR).

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

First Spring: 16

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PTE 1017 - Theoretical Concepts of Psychiatric Care II

Credit(s): 2
Lecture Hour(s): 2
Formerly PTE 117 Explores psychiatric problems common to four (4) special populations: children/adolescents, developmentally disabled individuals, aging persons, and forensic clients. The student learns to recognize and intervene with problems common to these four groups.

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2

Formerly HPR 106 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.

SWK 1100 - Social Welfare and Community Agencies with Service Learning

Credit(s): 3
Lecture Hour(s): 3
Provides a community oriented, service-related, and civic engagement experience from a social work perspective. The course requires at least 30 hours of service to a pre-approved community organization to enhance academic and civic learning, and covers social problems addressed by the organization. The course integrates social justice, socioeconomic, and political issues to personal and professional development within the field of social work.

Second Fall: 17

PTE 1020 - Application of Behavioral Health Care & Wellness

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Formerly PTE 120 Explores basic etiology, symptoms, and interventions for common behavioral and mental health disorders. Provides the opportunity for students to experience the mileu of a behavioral health care setting while providing basic care to clients experiencing common behavioral and mental health issues.

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

BEH 2001 - Mental Health Crisis & Intervention: Advoc, Interv, & Resil

Credit(s): 3
Lecture Hour(s): 3
Covers a wide range of skills in advocacy, intervention, and resilience within the context of mental health crises. The course emphasizes ethical decision-making, trauma-informed approaches, cultural competence, and innovative intervention strategies through a blend of theory, practical examples, and interactive learning.

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

Second Spring: 17

CSL 2068 - Addictions Counseling Skills

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 268 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 2046 - Ethical Practice in Addiction Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 245 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 course covers the Colorado Mental Health Practice Act and introduce the regulatory system and the role of Departmental of Regulatory Agencies (DORA) and Division of Behavioral Health (DBH) in the development and credentialing of the addiction counselor. Emphasis on developing ethical decision-making skills, knowledge of confidentiality and the prohibited activities in the Mental Health Practice Act become familiar with the National Association for Alcoholism and Drug Abuse Counselors (NAADAC) Code of Ethics and acquire the tools for ethical and legal practice.

CSL 2051 - Pharmacology I for Addiction Counselors

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 251 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 2052 - Advanced Pharmacology

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2051
Formerly CSL 252 Focuses on the pharmacology of alcohol and drugs such as stimulants, nicotine, cannabis, hallucinogens, designer drugs, over the counter medications, and medications for psychiatric illnesses. When combined with CSL 2051, this course meets the pharmacology training requirement for the Counselor II level of the Colorado Alcohol and Drug Abuse Program.

CSL 2061 - Case Conceptualization and Documentation

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 260 Provides 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, American Society of Addiction Medicine (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 2048 - Advanced Case Conceptualization

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2061
Formerly CSL 248 Covers the differences between screening and assessment and use of assessment instruments. In this course components of the clinical assessment include a biopsychosocial interview, assessing risk for self-harm, identifying cultural needs and supports, problem domains, determining stage of readiness for change and strengths of the client. Stages of treatment and systems of care will be covered along with facets of treatment planning.

CSL 2069 - Principles of Addiction

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 269 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.

CSL 2065 - Culturally Informed Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 265 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 2054 - Trauma Informed Care

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 254 Covers the concept of trauma?informed care, an approach being adopted within human services based upon an increased awareness of the ways trauma impacts functioning. Course will define what trauma informed care is and ways a traditional treatment setting can be modified to increase the sense of safety experienced by clients. Participants will learn how to incorporate trauma?informed practices into treatment with diverse populations, such as military veterans, women, and people with co?occurring disorders.

CSL 2050 - Motivational Interviewing I

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 250 Provides the opportunity for students to learn both the model of Motivational Interviewing as well as the underlying Stages of Development model. Discussion of the populations of clients where these models have proven most effective will be discussed. Student opportunity for skills practice during class that includes skill sets specific to each stage of client readiness will be used. Presentation of assessment instruments to evaluate client readiness for change.

CSL 2058 - Group Counseling Skills

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 258 Provides students with the skills that allow one therapist to facilitate a group process that help a number of clients simultaneously, and provides positive peer support and pressure for recovery. This class will help the student understand the use of group therapy and be able to demonstrate the skills necessary to facilitate a therapy group. The class will focus on group process and discuss diversity within groups, as well as challenges for group leaders.

CSL 2053 - Cognitive Behavior Therapy

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 253 Opportunity for students to learn the model of Cognitive Behavior Therapy as it applies to addiction. Discussion of the populations of clients where this model has proven most effective. Opportunity for skills practice during class that includes clincial feeback. Minimum of 14 contact hours.

CSL 2055 - Infectious Diseases for Addiction Counselors

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 255 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 2059 - Advanced Professional and Ethical Practice

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2046
Formerly CSL 259 Addresses organizational ethics and practices, individual provider ethics and practices, and guidelines for setting up a private practice. Topics will include Office of Behavioral Health (OBH) licensing rules; OBH behavioral health rules and regulations; practice standards and guidelines; Department of Regulatory Agencies (DORA) and the Mental Health Practice Act; the purpose of and the need for written policies and procedures; professional competencies, boundaries and ethical relationships; reporting violations; employee drug testing; liability insurance; clinical versus administrative supervision; the ethical delivery of culturally-responsive care and trauma-

informed care; and the need for professional self-care plan. This course will build on Ethical Practice in Addiction Treatment course.

CSL 2056 - Co-occurring Disorders

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 256 Presents the basics of working with clients with co-occurring mental health and substance abuse disorders. This class will address clinical assessment, treatment philosophy, strategies, and guidelines to provide integrated treatment with co?occurring disorders. It will include an introduction to the diagnostic criteria for the mental disorders most often seen with substance use disorders. The essential values, attitudes, and competencies of the counselor working with this population are discussed.

Biology, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science (AS) Degree with Designation in Biology prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Science (BS) degree in Biology. Students who opt for the Bachelor of Science in Biology can choose to work in numerous occupational fields of science or medicine. Once a BS is completed, many students will pursue a higher or graduate degree in Biology.

Program Description

This program introduces the student to the discipline of Biology includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Biology. Upon transfer, students from Pueblo Community College who have earned the Associate of Science (AS) Degree with Designation in Biology will be ready to complete the last half of a BS in Biology at a four-year institution.

Program Requirements

Refer to the course descriptions listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (36 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing Course (GT--CO3) *

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)

Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Science Courses (20 Credits)

Note: If these credits are not required for the major at a receiving 4-year institution, they will be applied to the Bachelor's degree as elective credit toward graduation. Please check with the receiving institution to determine in which way these courses will be applied

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Electives (4 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.S. Biology, Cellular and Molecular Biology, Organismal Biology, and Wildlife Biology emphasis)
- Colorado Mesa University (B.S. Biological Sciences, Biology concentration)
- Colorado State University-Ft. Collins (B.S. Biological Sciences)
- Colorado State University-Pueblo (B.S. Biology)
- Fort Lewis College (B.S. Biology, General Biology option)
- Metropolitan State University of Denver (B.S. Biology)
- University of Colorado, Boulder (B.A. Ecology and Evolutionary Biology)
- University of Colorado, Colorado Springs (B.S. Biology)
- University of Colorado, Denver (B.S. Biology)
- University of Northern Colorado (B.S. Biological Sciences, Cell and Molecular Biology, Ecology and Evolutionary Biology, Pre-Health and Biomedical Sciences emphasis)
- Western State Colorado University (B.A. Biology, Cell Biology/Pre-medicine, Environmental Biology and Ecology, General Biology, Pre-allied Health emphasis)

Bookkeeping Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Bookkeeping Certificate program focuses on the role of accounting basics in Business and Management. Students learn to use accounting information to analyze business data and present conclusions. Students learn to use ledgers, journals, and worksheets to complete formal and informal accounting tasks.

Career Options

The Bookkeeping Certificate prepares students for entry level positions in Bookkeeping, Payroll, Accounting, and Auditing.

The recommended full time schedule starting in the fall semester is as follows.

Total Credits: 27

Semester One, Fall: 12

ACC 1011 - Introduction to Financial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on financial accounting concepts prescribed by Generally Accepted Accounting Principles (GAAP), including financial information for external partners, the accounting cycle process, basic terminology, transaction analysis, internal control systems, and financial statement preparation and analysis.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

OR

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

Semester Two, Spring: 15

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1012 - Introduction to Managerial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on the fundamentals of managerial accounting and cost management as tools to aid internal users' decision-making processes. This course covers basic managerial accounting concepts, such as product costing and cost behavior and control. It also covers internal management decision making tools, including cost-volume-profit analysis, budgeting, cost analysis, and planning and control systems.

ACC 1025 - Computerized Accounting

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 125 Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3

Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

Broadcasting & Production Technology Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 27

Certificate Requirements

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications, conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

MGD 2064 - Digital Video Editing II

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): MGD 1064
Formerly MGD 264 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

RTV 1002 - Beginning Television

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly RTV 102 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, preproduction, and post production.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

Business Administration BAS

Total Credits: 120

Spring Semester 1 (15 credits)

Fall Semester 1 (15 credits)

Spring Semester 2 (15 credits)

Fall Semester 2 (15 credits)

Business Fundamentals Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The AAS and Certificate programs prepare you for entry level positions in marketing, management or sales; they also give you the skills you need to open your own business.

Program Description

You will study management from three perspectives: marketing, management and economics. Marketing studies offer specific training in sales, advertising, promotion and marketing. Management studies offer a generalized perspective with broad applications in the business world. Economic studies give you a basic understanding of economics and its relationship to other disciplines.

The Business Fundamentals Certificate program prepares you for an entry-level position in business or for starting your own small business. You can apply all course work for this certificate to the AAS Degree in Business Management.

Total Credits: 25

Certificate Requirements

ACC 1015 - Payroll Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 115 Covers 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, including computerized payroll procedures.

OR

ACC 1031 - Income Tax

Credit(s): 3
Lecture Hour(s): 3
Formerly ACC 131 Introduces basic concepts of federal income taxation and tax administration with emphasis on taxation of individuals and sole proprietorships.

OR

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1021 - Accounting Principles I

Credit(s): 4
Lecture Hour(s): 4
Formerly ACC 121 This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

CHOOSE 4 COURSES BELOW (12 Credits)

BUS 1002 - Entrepreneurial Operations

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 102 Explores the essential requirements for starting and operating a business. This course covers basic concepts of business law, marketing, finance and operations. It guides the development of an effective business plan and prepares students to launch and sustain their own businesses.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

MAN 2000 - Human Resource Management I

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 200 Provides an overview of the contemporary issues, theories, and principles used to effectively

manage human resources. Topics covered include job analysis and design, talent acquisition and retention, planning and recruiting human resources, selecting employees, job placement, employee training and performance management, selecting employees, compensation and benefits, and retaining employees.

MAN 2016 - Small Business Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 216 Examines the elements necessary for the successful formation of a new small business and to enhance the skills of those already involved in the operation of a small business. This course includes the development of a complete small business plan.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

Business Management Certificate

See list of Department Chairs on the Personnel page.

Program Description

Teaches you job performance skills related to careers in business. It is a short intensive course of study which prepares you for entry-level work. You can apply all course work to the AAS degree in Business Management.

Total Credits: 30

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1011 - Introduction to Financial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on financial accounting concepts prescribed by Generally Accepted Accounting Principles (GAAP), including financial information for external partners, the accounting cycle process, basic terminology, transaction analysis, internal control systems, and financial statement preparation and analysis.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

BUS 1016 - Personal Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 116 Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

MAR 2016 - Principles of Marketing

Credit(s): 3
Lecture Hour(s): 3
Formerly MAR 216 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.

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

Business Management, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Business Management AAS degree provides the basic skills needed for management positions. Students learn principles of management. They also gain practical skills as they engage with the business world.

Career Options

The Business Management program prepares students for careers in entry-level positions in Marketing, Management, Sales, and Entrepreneurship (opening your own business).

Total Credits: 60

Semester One, Fall (15 credits)

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ACC 1011 - Introduction to Financial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on financial accounting concepts prescribed by Generally Accepted Accounting Principles (GAAP), including financial information for external partners, the accounting cycle process, basic terminology, transaction analysis, internal control systems, and financial statement preparation and analysis.

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

- Any COM course **Credit(s): 3**

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

Semester Two, Spring (15 credits)

ACC 1012 - Introduction to Managerial Accounting

Credit(s): 3
Lecture Hour(s): 3
Focuses on the fundamentals of managerial accounting and cost management as tools to aid internal users' decision-making processes. This course covers basic managerial accounting concepts, such as product costing and cost behavior and control. It also covers internal management decision making tools, including cost-volume-profit analysis, budgeting, cost analysis, and planning and control systems.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BUS 1016 - Personal Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 116 Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

ENP 2007 - Entrepreneurship Financial Topics

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 207 Will cover topics such as financial planning for entrepreneurs, understanding tax considerations, understanding financial documents, financial ratio analysis, cash flow management, cost of capital and budgeting, raising capital, valuation, risk assessment, and venture exits.

Summer Semester Option

Enroll in any courses found on this page that would reduce the course load for other semesters.

Semester Three, Fall (15 credits)

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

ENP 2006 - Entrepreneurship Legal Issues

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 206 Explores legal issues related to business entities including sole proprietorship, general partnerships, limited partnerships, and corporations. This course reviews articles of incorporation and the filing process, employment law, property, landlord tenant rights and duties, and business insurance.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3

Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

MAN 2024 - Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 224 Focuses on the leadership skills for contemporary organizations. Covers development and communication a shared vision to motivate and empower employees to manage conflict, to negotiate, and to develop teams.

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

Semester Four, Spring (15 credits)

ACC 1025 - Computerized Accounting

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 125 Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

BUS 2026 - Business Statistics

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 226 Focuses on statistical study, sampling, organizing and visualizing data, descriptive statistics, probability, binomial distributions, normal distributions, confidence intervals, linear regression, and correlation. Intended for business majors.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

MAR 2016 - Principles of Marketing

Credit(s): 3
Lecture Hour(s): 3
Formerly MAR 216 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.

ENP 2005 - Marketing for the Entrepreneur

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 205 Covers marketing strategies to launch and sustain an entrepreneurial venture. This course will include topics on marketing entrepreneurial ventures utilizing innovative and financially responsible marketing strategies. This course will help students to develop an understanding of entrepreneurial marketing goals and objectives. The course covers marketing principles and electronic marketing.

PSV 2030 - Introduction to Civic Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly PSV 230 Enables the student to develop a critical understanding of public leadership through the study of pertinent models, theories and research.

Business Ownership AAS

See list of Department Chairs on the Personnel page.

Program Description

The Business Management program (AAS Degree and Certificates) prepares students for entry level positions in Marketing, Management, Sales, and Entrepreneurship. These offerings also provide opportunities for individuals working within the industry to up-skill and advance their careers. The (AA) in Business Management prepares students to transfer to bachelor's degree programs in Business Management. Per the statewide articulation agreement, students can complete fundamental courses at PCC and transfer to complete a Bachelor's Degree with a specific emphasis.

Total Credits: 61

General Education Requirements (15 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

- Any Communications Course(s) **Credit(s): 3**

Core Curriculum Requirements (31 credits)

ACC 1021 - Accounting Principles I

Credit(s): 4
Lecture Hour(s): 4
Formerly ACC 121 This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

ENP 1006 - Entrepreneurship Opportunity Analysis/Feasibility Study

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 106 Determines if a business venture is feasible based on personal, professional, and financial goals.

This course will help to identify and analyze the present climate for business ideas through an industry analysis, target market analysis, competitive analysis, and financial analysis.

ENP 2005 - Marketing for the Entrepreneur

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 205 Covers marketing strategies to launch and sustain an entrepreneurial venture. This course will include topics on marketing entrepreneurial ventures utilizing innovative and financially responsible marketing strategies. This course will help students to develop an understanding of entrepreneurial marketing goals and objectives. The course covers marketing principles and electronic marketing.

ENP 2006 - Entrepreneurship Legal Issues

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 206 Explores legal issues related to business entities including sole proprietorship, general partnerships, limited partnerships, and corporations. This course reviews articles of incorporation and the filing process, employment law, property, landlord tenant rights and duties, and business insurance.

ENP 2007 - Entrepreneurship Financial Topics

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 207 Will cover topics such as financial planning for entrepreneurs, understanding tax considerations, understanding financial documents, financial ratio analysis, cash flow management, cost of capital and budgeting, raising capital, valuation, risk assessment, and venture exits.

ENP 2009 - Entrepreneurship Business Plan

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 209 Guides students through the evaluation of a business concept. This course will include writing a comprehensive business plan. This course explores both traditional and lean business planning as a means to establish strategic vision and direction for a business. This course assesses the strengths and weaknesses of a business concept. This course will include identifying external and environmental factors related to business ownership and evaluating various resources available for funding small businesses.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

CTE Focused Elective Options (15 credits)

Students will choose courses within a specific discipline to gain content knowledge of a specific industry, e.g., Business, Culinary Arts, Automotive, Welding, Cosmetogloy, etc. **Credit(s): 15**

Business Ownership Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Business Management program (AAS Degree and Certificates) prepares students for entry level positions in Marketing, Management, Sales, and Entrepreneurship. These offerings also provide opportunities for individuals working within the industry to up-skill and advance their careers. The (AA) in Business Management prepares students to transfer to bachelor's degree programs in Business Management. Per the statewide articulation agreement, students can complete fundamental courses at PCC and transfer to complete a Bachelor's Degree with a specific emphasis.

Total Credits: 18

Certificate Requirements (18 credits)

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

ENP 1006 - Entrepreneurship Opportunity Analysis/Feasibility Study

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 106 Determines if a business venture is feasible based on personal, professional, and financial goals. This course will help to identify and analyze the present climate for business ideas through an industry analysis, target market analysis, competitive analysis, and financial analysis.

ENP 2005 - Marketing for the Entrepreneur

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 205 Covers marketing strategies to launch and sustain an entrepreneurial venture. This course will include topics on marketing entrepreneurial ventures utilizing innovative and financially responsible marketing strategies. This course will help students to develop an understanding of entrepreneurial marketing goals and objectives. The course covers marketing principles and electronic marketing.

ENP 2006 - Entrepreneurship Legal Issues

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 206 Explores legal issues related to business entities including sole proprietorship, general partnerships,

limited partnerships, and corporations. This course reviews articles of incorporation and the filing process, employment law, property, landlord tenant rights and duties, and business insurance.

ENP 2007 - Entrepreneurship Financial Topics

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 207 Will cover topics such as financial planning for entrepreneurs, understanding tax considerations, understanding financial documents, financial ratio analysis, cash flow management, cost of capital and budgeting, raising capital, valuation, risk assessment, and venture exits.

ENP 2009 - Entrepreneurship Business Plan

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 209 Guides students through the evaluation of a business concept. This course will include writing a comprehensive business plan. This course explores both traditional and lean business planning as a means to establish strategic vision and direction for a business. This course assesses the strengths and weaknesses of a business concept. This course will include identifying external and environmental factors related to business ownership and evaluating various resources available for funding small businesses.

Business, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Business prepares students to transfer to a bachelor's degree business program.

Program Description

Students who complete an AA degree and the prescribed curriculum in the articulation agreement and are admitted (with no academic deficiencies that require additional coursework) to a receiving institution participating in this agreement are guaranteed the following:

Junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in the degree program covered by this articulation agreement. Completion of the curriculum prescribed within this statewide articulation agreement does not guarantee admission to a participating receiving institution.

Program Requirements

Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation stated deadlines. In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC

c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Business advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with Designation in Business, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

Required Courses General Education (32 credits)

(Written) Communication (6 credits)

- A GT Pathways-approved CO1 course (GT-CO1) and a GT Pathways-approved CO2 course (GT-CO2)

OR

- A GT Pathways-approved CO2 course (GT-CO2) and a GT Pathways-approved CO3 course (GT-CO3)

Mathematics (4 credits)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OR

MAT 1320 - Finite Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appropriate placement scores
Formerly MAT 123 Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OR

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores

Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

- **OR** a higher-level Calculus course
  Note: University of Colorado Colorado Springs and University of Northern Colorado require MAT 1400

Arts & Humanities (6 credits)

PHI 2005 - Business Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 205 Examines major ethical theories and then applies ethical decision-making criteria to various moral issues and challenges in a business environment. This course includes issues such as job discrimination, worker's rights, consumerism, advertising, whistle-blowing, product safety, responsibility to the environment, as well as compassionate and fair responsibility to society. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

AND

- One GT Pathways Arts & Humanities course from the following AH categories: GT-AH1, GT-AH2, GT-AH3, GT-AH4

History (3 credits)

- One GT Pathways History course (GT-HI1)

Social & Behavioral Sciences (6 credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

Natural & Physical Sciences (7 credits)

- Two GT Pathways Natural & Physical Sciences courses (GT-SC1, GT-SC2), one must be with a laboratory (GT-SC1)

Additional Required Courses (21-23 Credits)

ACC 1021 - Accounting Principles I

Credit(s): 4
Lecture Hour(s): 4
Formerly ACC 121 This course introduces accounting principles for understanding the theory and logic that underlie procedures and practices for business organizations. Major topics include the accounting cycle for service and merchandising companies, internal control principles and practices, notes and interest, inventory systems and costing, and plant and intangible asset accounting.

ACC 1022 - Accounting Principles II

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): ACC 1021
Formerly ACC 122 This course continues the application of accounting principles to business organizations. Major topics include corporate equity and debt financing, investments, cash flow statements, financial analysis, budgeting, cost and managerial accounting.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

BUS 2016 - Legal Environment of Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 216 Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is given to economic regulation, social regulation, labor-management issues, environmental issues, and contract fundamentals. This course analyzes the role of law in social, political, and economic change business environments.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

BUS 2026 - Business Statistics

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 226 Focuses on statistical study, sampling, organizing and visualizing data, descriptive statistics, probability, binomial distributions, normal distributions, confidence intervals, linear regression, and correlation. Intended for business majors.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Electives (5-7 credits)

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. Business Administration, emphasis in in Advertising, Business Teacher Education, General Business or International Business; B.S. Business Administration, emphasis in Accounting, Agribusiness, Economics, Finance, General Business, Health Care Administration, Management, Management Information Systems, Marketing, or Small Business Management)
- Colorado Mesa University (Bachelor of Business Administration (B.B.A.) concentrations in Business Economics, Emerging Markets, Energy Management/Landman, Entrepreneurship, Finance, Hospitality Management, Human Resource management, Information Systems, Insurance, Management, Managerial Informatics, or Marketing)
- Colorado Mountain College (as four-year institution) (B.S. Business Administration)
- Colorado State University-Ft. Collins (B.S. Business Administration)
- Colorado State University – Global Campus (B.S. Accounting, Business management, Healthcare Administration and management, Human Resource Management, Information Technology Management, Management Information Systems and Business Analytics, Marketing, Project Management)
- Colorado State University-Pueblo (B.S. Business Administration, majors in Management, Accounting, or Economics)
- Fort Lewis College (B.A. Business Administration, Business Administration option)
- Metropolitan State University of Denver (B.S. Accounting, Computer Information Systems, Finance, Management, Marketing
- University of Colorado, Boulder (B.S. Business Administration)
- University of Colorado, Colorado Springs (B.S. Business, emphasis in Accounting, Business Administration, Finance, Human Resources Management, Information Systems, International Business, Management, Marketing PGA Golf Management, Service Management, or Sport Management)
- University of Colorado, Denver (B.S. Business Administration, emphasis in Accounting, Finance, Financial Management, Human Resources Management, Information Systems, International Business, Management, or Marketing)
- University of Northern Colorado (B.S. Business Administration, all emphasis)
- Western State Colorado University (B.A. Business Administration)

CAD Basic

See list of Department Chairs on the Personnel page.

Program Description

This certificate provides basic skills in 2D computer. It prepares the student for entry level work in the field of Architectural Engineering Technicians.

Core Requirements (6 credits)

CAD 1101 - Computer Aided Drafting/2D I

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 101 Focuses on basic computer aided drafting skills using the AutoCAD software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning and Help access.

CAD 1102 - Computer Aided Drafting/2D II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): CAD 1101
Formerly CAD 102 Focuses on intermediate 2D Computer aided drafting skills using the AutoCAD software. Includes blocks, wblocks & dynamic blocks, hatching, isometric drawings, advanced dimensioning and dimension variables, layouts, paper space and viewports, templates, external references, attributes, raster images, & printing/plotting.

Chemistry, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science (AS) Degree with Designation in Chemistry prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Science (BS) degree in Chemistry. Students who opt for the Bachelor of Science in Chemistry can choose to work in numerous occupational fields of science or medicine. Once a BS is completed, many students will pursue a higher or graduate degree in Chemistry.

Program Description

This program introduces the student to the discipline of Chemistry includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Chemistry. Upon transfer, students from Pueblo Community College who have earned the Associate of Science (AS) Degree with Designation in Chemistry will be ready to complete the last half of a BS in Chemistry at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (30 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing Course (GT-CO3) *

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (3 Credits)

(See note below)

- Select one GT Pathways Arts and Humanities course from any category (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (3 Credits)

(See note below)

- Select one GT Pathways Social and Behavioral course from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Science and Mathematics Courses (29 Credits)

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration,

analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 2111 - Organic Chemistry I with Lab

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1112
Formerly CHE 211 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, and reaction mechanisms such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry.

CHE 2112 - Organic Chemistry II with Lab

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2

Prerequisite(s): CHE 2111
Formerly CHE 212 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.

Elective (1 Credit)

Determined by transferring institution

Transfer Degrees

Note: This statewide transfer articulation agreement in Chemistry does not fulfill requirements for the GT Pathways general education curriculum or the Associate of Science degree prior to transfer; however, this agreement does guarantee a student, if admitted, junior standing and completion of the bachelor's degree within an additional 60 semester hours at the receiving institution.

Completion of the receiving institution's lower division general education requirements is fulfilled only under the condition that one GT Pathways-approved course in arts and humanities (AH1, AH2, AH3, or AH4) and one GT Pathways-approved course in social and behavioral sciences (SS1, SS2, or SS3) are successfully completed at the receiving institution within the first 30 hours or 12 calendar months.

Students transferring to a four-year college/university under this Chemistry agreement are encouraged to 'reverse' transfer the one GT Pathways course in arts and humanities and the one GT Pathways course in social and behavioral sciences back to PCC in order to complete the GT Pathways general education program and to earn their Associate of Science degree with a Chemistry designation.

Lecture and laboratory portions of organic chemistry, CHE 2111 and CHE 2112, must not be taken in an online delivery format.

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.S. Chemistry)
- Colorado Mesa University (B.S. Chemistry)
- Colorado State University-Ft. Collins (B.S. Chemistry)
- Colorado State University-Pueblo (B.S. Chemistry)
- Fort Lewis College (B.S. Chemistry, Chemistry option)
- Metropolitan State University of Denver (B.A./B.S. Chemistry)
- University of Colorado, Boulder (B.A. Chemistry)
- University of Colorado, Colorado Springs (B.A./B.S. Chemistry)
- University of Colorado, Denver (B.S. Chemistry)
- University of Northern Colorado (B.S. Chemistry, Biochemistry, Chemistry, Forensic Science, Industrial Chemistry, Pre-Health emphasis)
- Western State Colorado University (B.A. Chemistry, General Chemistry, Biochemistry emphasis)

CIS: Certification Prep

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS IT Industry Certification Preparation Program provids the theory and technical training so that students are prepared to sit for examination to earn A+, Network+, and Security+ industry credentials, from CompTIA.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 16

Certificate Requirements

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50

Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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: Cybersecurity Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 28

Certificate Requirements

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 133 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 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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 2056 - Vulnerability Assessment Level 1

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032 or CNG 2001
Formerly CNG 256 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.

CIS: Information Basic Assurance

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 19

Certificate Requirements

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 133 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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.

CIS: Microsoft Office

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 6

Certificate Requirements

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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 2018 - Advanced PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50

Formerly CIS 218 Emphasizes solving business problems by integrating data from all of the software applications that facilitate the production of useful information. Advanced capabilities of a PC software applications suite are utilized. Printed documents, reports, slides, and forms are produced to communicate information.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

CIS: Networking Security

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 15

Certificate Requirements

CNG 1004 - Intro to TCP/IP

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 104 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 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 133 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 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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.

CIS: Networking Technology

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an

emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 13

Certificate Requirements

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

CNG 1004 - Intro to TCP/IP

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 104 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 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024

Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

CNC Machining

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 12

Certificate Requirements

MAC 2003 - Introduction to CNC Operations

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 203 Introduces basic writing and editing of CNC programs. G&M codes, math, speeds feeds, production processes including basic process controls, simple fixturing, and documentation associated with manufacturing will be covered.

MAC 2008 - CNC Operations II

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 208 Further develops skills in writing and editing advanced CNC programs. G&M codes, math, speeds deeds, production processes including multi-part, process controls, fixturing, and documentation associated with manufacturing will be covered.

Communication, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in Communication prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) degree in Communication. Students who opt for the Bachelor of Arts in Communication can choose to work in several occupational fields, including business, advertising, education, media, journalism or public relations. Once a BA is completed, students may pursue a higher or graduate degree in Communication, if interested.

Program Description

This program introduces the student to the discipline of Communication and includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Communication. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Communication will be ready to complete the last half of a BA in Communication at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3** and a GT Pathways Advanced Writing Course (GT-CO3) *

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GTMA1) *, prefer MAT 1240: Mathematics for the Liberal Arts

Natural and Physical Sciences (7 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1, GT-SC2) *. At least one of these courses must include a laboratory component (GT-SC1) *

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

COM 2300 - Intercultural Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 220 Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

- select one other GT Pathways Social and Behavioral course from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Communication Courses (18 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3

Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 2220 - Group Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 217 Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

- Select one three-credit course with a COM prefix **Credit(s): 3**

Select two GT Pathways courses from either: (6 Credits)

- History (GT-HI1) *, **or** Social and Behavioral Sciences (GT-SS1, GT-SS2, **or** GT-SS3) *

Electives (11 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Colorado State University-Ft. Collins (B.A. Communication Studies)
- Colorado State University-Global Campus (B.S. Communication)
- Metropolitan State University of Denver (B.A. Speech Communication, Organizational Communication emphasis)
- University of Colorado, Boulder (B.A. Communication)
- University of Colorado, Colorado Springs (B.A.
- Communication, General Communication Studies emphasis)
- University of Colorado, Denver (B.A. Communication)
- University of Northern Colorado (B.A. Communication Studies)
- Western State Colorado University (B.A. Communication Arts, Communication emphasis)

Comp-Aided:Dsgn & Mfg: CAD/CAM

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional

drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 10

Certificate Requirements

MAC 2043 - Mastercam

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly MAC 243 Introduces the concepts of creating basic 2D and 3D Mastercam wireframes, building and manipulating surfaces and solids. The practices and techniques of fixture incorporation, tool pathing, and machine code generation will be discussed. Basic user interfaces and custom interface setup will be covered, as well as common file storage.

MAC 2041 - CAD CAM 2D Lab

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly MAC 241 Requires students to produce a variety of lab exercises on robotic machinery in conjunction with MAG 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.

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

Computed Tomography, BAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The BAS in Radiologic Technology program prepares students for careers in Computed Tomography (CT) or Magnetic Resonance Imaging (MRI), Leadership and Teaching in Medical Imaging.

Program Description

The BAS in Radiologic Technology program teaches students to perform Computed Tomography (CT) exams or Magnetic Resonance Imaging (MRI) exams as well as how to lead or teach others in the Medical Imaging Department. It provides students with an additional imaging modality and prepares them to take on leadership roles in the imaging department in health care facilities.

Program Requirements

Entrance Requirements:

Applicants must hold an associate's degree and be a registered radiologic technologist with the American Registry of Radiologic Technologists (ARRT).

Graduation Requirements:

Must complete 120 credits including didactic and clinical components of the program.

Total Credits: 120

Curriculum Requirements (43 Credits)

First Year-Fall Semester

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on

laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

First Year-Spring Semester

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

RTE 3011 - Sectional Anatomy for Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 311 Identifies anatomy in various imaging planes of advanced modalities. Compares normal anatomy with gross pathology on advanced cross-sectional images. Evaluation of anatomy and pathology will include head, spine, thorax, abdomen/pelvis and extremities.

RTE 3012 - IV Certification for Contrast Medium

Credit(s): 1
Lecture Hour(s): 0.50
Clinic Hour(s): 1

Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 312 Prepares the student to perform IV contrast administration including knowledge of arterial and venous anatomy, appropriate puncture sites, necessary equipment and supplies, understanding of different contrast media, injectors and administration safety.

RTE 3041 - Theory and Application of CT Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 341 Applies the fundamental and advanced principles of Computed Tomography (CT) in order to perform clinical CT examinations of the human body with special consideration to image production, quality control, terminology, basic procedural steps and MRI equipment and safety.

RTE 3051 - CT Protocols and Procedures

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 351 Covers the skill and knowledge necessary to perform supplemental procedures for imaging various anatomical structures including the head, spine, chest, abdomen, pelvis and extremities utilizing Computed Tomography. It provides instruction on gross pathological conditions demonstrated on CT images.

Summer Semester

RTE 3082 - Internship: CT I

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 382 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

RTE 4051 - Advanced CT Protocols and Procedures

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 3051.
Formerly RTE 451 Provides the skill and knowledge necessary to perform advanced specialty procedures for imaging various anatomical structures utilizing Computed Tomography. It distinguishes vascular anatomy and incorporates contrast media injections and contraindication into complex imaging studies.

Second Year-Fall Semester

MAN 2025 - Managerial Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 225 Examines the concepts and techniques used to analyze financial accounting information for managerial planning, decision-making, and control. Additionally, the course discusses decision-making relating to the areas of budgets, forecasts, cost volume production, Return on Investment (ROI) and financial statements.

RTE 4061 - Leadership in Medical Imaging

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): MRI or CT Program Admission.
Formerly RTE 461 Examines concepts and skills needed for leadership roles in Medical Imaging. It prepares the student with communication, time management, supervision, task delegation, conflict management and performance assessment skills.

or

RTE 4062 - Teaching Methodologies in Medical Imaging Education

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): MRI or CT Program Admission.
Formerly RTE 462 Provides a general overview of the concepts and theory of Medical Imaging education. It introduces current theories of teaching adult learners in the Imaging Sciences, objective development of active learning activities, classroom assessment techniques and delivering course content through distance-learning formats.

RTE 4082 - Internship: CT II

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 3082.
Formerly RTE 482 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Computer Information Systems, AGS (with Transfer Articulation Agreement)

See list of Department Chairs on the Personnel page.

Career Opportunities

The AGS degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program teaches you basic networking, programming and database technologies, as well as technical aspects of the Internet and data communications. The Associate of General Studies Degree with an emphasis in Computer Information Systems prepares you to transfer to a university as a junior to pursue a bachelor's degree in Computer Science or Computer Information Systems. Please check with the university of your choice to assure transferability of all courses.

Total Credits: 60

General Education Course Requirements (30 Credits)

Written and Oral Communication (9 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of

critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Mathematics (4 Credits)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Physical & Life Sciences (8 Credits)

Courses with Required Lab:

Choose two courses:

ANT 1001 - Cultural Anthropology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 101 Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

AST 1110 - Astronomy I With Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 101 Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 102 Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT- SC1 category.

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and CHE 1011

Formerly CHE 102 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, Intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1005 - Chemistry in Context with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 105 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ENV 1111 - Environmental Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly ENV 101 Introduces the basic concepts of ecology and the relationship between environmental problems and biological systems. This course includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. A holistic approach is used when analyzing how the foundations of natural sciences interconnect with the environment. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1011 - Physical Geography: Landforms with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 111 Examines 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. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 112 Introduces the principles of meteorology, climatology, ecology, and regional climate classification. The course investigates the geographic factors which influence climate and ecosystems such as topography, elevation, winds, ocean currents, and latitude. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): GEY 1111
Formerly GEY 112 Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1135 - Environmental Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 135 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MET 1050 - General Meteorology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly MET 150 Provides an introduction to general meteorology and atmospheric sciences. Includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Examines the development of weather system, such as storm systems, hurricanes, weather fronts, and cloud development. Stresses the concepts of climatology. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1107 - Energy Science & Technology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): MAT 0300 with a grade of S/C or better.
Formerly PHY 107 Explores the science of energy and energy technologies with a focus on renewable energy resources and clean technologies. The course provides a background in the physics of energy, energy transfer, and the current state of energy technology. Evaluation of the future utilization of renewable technologies is included. Topics may include conservation of energy; mechanical, electrical, heat, and fluid power systems; energy transfer and loss; energy audits; and testing solar collectors and wind generators. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4

Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Social Sciences (6 Credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

Choose One Course from the Following (3 Credits)

Arts and Expression

ART 1110 - Art Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 110 Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1113 - Art History

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 207 Introduces the concepts necessary to understand modern visual art, with an emphasis on world art of the 20th century. This course surveys world art of the 20th century, including Modernism to Post-Modernism. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1020 - Music Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 120 Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western, and non-Western historical style periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1021 - Music History Medieval Thru Classical Period: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 121 Provides an historical survey of Western art music from the Middle Ages into the Classical period, including styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1022 - Music History Early Romantic Period to the Present: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 122 Provides an historical survey of Western art music connecting the classical period to the Romantic period and following to the present. This course includes the study of styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1025 - History of Jazz: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 125 Provides an overview of jazz history covering the basic materials of music and the forms, media, genres, and the historical and cultural framework of each style period. This course emphasizes the building of critical listening tools and the development of a jazz music vocabulary. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 1005 - Theatre Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 105 Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2011 - Development of Theatre Greek-Renaissance: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 211 Surveys the history and development of theatrical practices from Ancient Greece to the Renaissance as well as non-western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2012 - Development of Theatre Restoration to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 212 Surveys the history and development of theatrical practices from Restoration to the present as well as non-Western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2015 - Playwriting: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 215 Develops playwriting techniques emphasizing elements of dramatic structure, dialogue, styles, creative writing, and theatrical practices. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

Literature and Humanities

HUM 1003 - Introduction to Film Art: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 103 Introduces film terminology and narrative techniques to explore how film conveys meaning and to study the relationships among film form, content, and audience reception. This course emphasizes active viewing, discussion, and critical analysis of films from different cultures and eras. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT:AH2

HUM 1015 - World Mythology: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 115 Introduces an interdisciplinary approach to world mythology. The course illustrates and connects common themes in mythology to world religion, philosophy, art, literature, music, and contemporary culture using various interpretive methods. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1021 - Humanities: Early Civilization: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 121 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among diverse cultures, including European and non-

European, from the prehistoric to the early medieval era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1022 - Humanities: Medieval - Modern: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 122 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the medieval to the early modern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1023 - Humanities: Modern World: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 123 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the European Enlightenment to the postmodern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021.
Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2001 - World Literature to 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 201 Examines significant writings in world literature from the ancients to the seventeenth century. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2002 - World Literature After 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 202 Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2005 - Race. Ethnicity, and Culture in U.S. Literature: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 205 Examines the cultural, historical, and social contexts impacting multiple ethnic American identities through critical reading and analysis. This course focuses on significant works by authors who identify as African

American, Native American, Latino/a, Asian American, and other ethnicities. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2011 - American Literature to Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 211 Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2012 - American Literature After Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 212 Examines American literary works from 1865 to the present, distinguishing among literary themes, genres, and schools of thought that illustrate historical and social contexts across a multicultural spectrum. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2025 - Introduction to Shakespeare: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Placement at ENG 1021 level or consent of instructor.
Formerly LIT 225 Explores works by William Shakespeare, focusing on a careful reading of these works as well as an exploration of pertinent contextual and historical information. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2046 - Literature of Women: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 246 Examines the techniques and themes in literature of various genres by and about women by considering what it means for women to be in literature, as characters and also as authors. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

Ways of Thinking

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1014 - Comparative Religions: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 114 Introduces the major religions of the Eastern and Western world. Covers Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Utilizes methods of religious studies to understand the historical development of each religious tradition as well its worldview and teachings. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1015 - World Religions-West: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 115 Introduces students to religions of the Western World: Judaism, Christianity, and Islam. Utilizes the methods of religious studies 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 is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2014 - Philosophy of Religion: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 214 Focuses on the critical analysis and evaluation of the fundamental concepts, ideas, and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of ultimate reality, arguments concerning God`s existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience, and religious diversity. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2018 - Environmental Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 218 Analyzes theories of the value of the natural world. Topics may 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; and the connection between moral and political values and economic policies. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2020 - Philosophy of Death and Dying: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 220 Explores the major philosophical questions surrounding death and dying, the metaphysical arguments for and against the existence of the soul, life after bodily death, the major ethical theories and their relation to issues of physician-assisted suicide, care for the dying, the grieving process, death as expressed in aesthetics and contemporary society, as well as the existential contributions concerning meaning of life and the meaning of death. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Core Curriculum Requirements (27 Credits)

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

CSC 2067 - Object-Oriented Analysis and Design

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 267 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.

Electives (3 Credits)

(Choose from List)

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

or

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

or

BUS 2026 - Business Statistics

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 226 Focuses on statistical study, sampling, organizing and visualizing data, descriptive statistics, probability, binomial distributions, normal distributions, confidence intervals, linear regression, and correlation. Intended for business majors.

or

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

or

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Computer Science, DwD

See list of Department Chairs on the Personnel page.

Total Credits: 60

General Education Course Requirements (36 credits)

Written and Oral Communication (6 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 credits)

- Choose a CCCS GT-SC1 (5 credits)
- Choose a CCCS GT-SC1 (5 credits)

Arts and Humanities (6 credits)

- Choose a CCCS GT-AH1, AH2, AH3, or AH4 (3 credits)
- Choose a CCCS GT-AH1, AH2, AH3, or AH4 (3 credits)

Social Sciences (6 credits)

- Choose a CCCS GT-SS1, SS2, SS3 (3 credits)
- Choose a CCCS GT-SS1, SS2, SS3 (3 credits)

History (3 credits)

- Choose a CCCS GT-HI1 (3 credits)

Select 24 Elective Credits from the Below (24 credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 2030 - C Programming: Platform

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CSC 1019 and CSC 1060
Formerly CSC 230 Prepares students to be a better programmer using the C programming language. C is a mid-level language whose economy of expression and data manipulation features allows a programmer to deal with the computer at a low level. The goal is to learn skills that are usable in many languages and understand what is happening at the

machine level. The student should already understand the control structures selection, iteration, and subroutines (functions/methods).

CSC 2040 - Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060 or CSC 2017
Formerly CSC 240 Introduces the Java Platform, Standard Edition (Java SE), to develop Graphical User Interface (GUI) applications. Language constructs will include loops, conditionals, methods, and arrays. The code will incorporate event and exception handling, File I/O, and Object-Oriented Programming (OOP) concepts.

CSC 2041 - Advanced Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 2040 or CSC 1060
Formerly CSC 241 Covers advanced programming topics including multi-threading, network/internet programming, database programming, and JavaBeans. This course focuses on writing Java Enterprise Edition (Java EE) complex programs.

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2540 - Linear Algebra

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 2420
Formerly MAT 255 Introduces linear algebra and emphasizes techniques of problem solving and introductory proofs.This course includes linear systems, matrices, determinants, vector spaces, linear transformations, eigenvalues, and eigenvectors.

Choose one CCCS GT-SC1 (4 credits)

Computer Support Technician

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming, and database technologies along with classes that teach the technical aspects of the internet and data communications. Note: Students interested in transferring ot a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section of this catalog.

Total Credits: 60

Communications (3 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Mathematics (4 Credits)

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

OR

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

General Education Electives (9 Credits)

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CIS Core (16 Credits)

CIS 2020 - Fundamentals of Unix

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 220 Explores the structure and fundamentals of the Unix operating system including the file system and file processing, various utility programs, shell, multi-user operation, text processing, and communications.

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

CIS 2087 - Cooperative Education

Credit(s): 1-12
Internship Hour(s): 3-36
Formerly CIS 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.
Credit(s) needed: 3

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2

Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

IT Systems Administration Core (28 Credits)

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CNG 1004 - Intro to TCP/IP

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 104 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 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1042 - Introduction to Cloud Computing Concepts

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 142 Introduces fundamental content on cloud computing including system analysis, requirements, configuration, deployment, and testing. This course includes information on management, business continuity, security, maintenance, updating, and troubleshooting as related to cloud computing.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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.

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

CNG 2040 - Virtual Environment Admin

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 240 Build and administer a hypervisor environment. Includes building of virtual machine (VM) infrastructure and skills such as patching, backing up and securing of both hypervisor and virtual machines.

CNG 2042 - Cloud Computing

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 242 Installs, configures and manages a cloud environment. Builds on knowledge of hypervisor and virtual machine environments.

Construction NCCER Certificate

Total credits: 16

Certificate requirements

OSH 1310 - 10-hr Construction Industry Standards

Credit(s): 1
Lecture Hour(s): 1
Formerly OSH 127 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CON 1057 - National Center for Construction Education & Research Core

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.5
Formerly CON 157 Introduces the fundamentals for all construction trades to include basic construction site safety, introduction to construction math, introduction to power tools, introduction to construction drawings, basic communication skills, basic employability skills, and introduction to material handling. This course is designed as an entry level course for any of the building trades program specialties.

CON 1058 - National Center for Construction Education & Research Carpentry I

Credit(s): 6
Lecture Hour(s): 1
Vocational Lab Hour(s): 7.5
Formerly CON 158 Introduces foundational level carpentry skills, basic residential construction systems, the importance of personal and workplace safety, and the role of carpenters within the construction industry.

OR

- CON 2075 - Special Topics **Credit(s): 6**

CON 2080 - Internship

Credit(s): 4
Internship Hour(s): 12
Formerly CON 280 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Construction Technician Basic Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Construction Technology program prepares students for entry-level careers in construction, including carpentry, roofing, concrete work, painting, drywall, and insulation.

Program Description

The Construction Technology Program prepares students to apply basic, technical knowledge and skills in building trades and construction. This includes building, inspecting, and the maintenance of structures and related properties. Training involves using construction equipment safely; blueprint reading; building codes; construction mathematical skills (such as measurements); framing; and other related applications. Students have opportunities to visit construction sites and meet professionals working within the industry. Students gain exposure to multiple career options within the industry.

Total Credits: 15

Certificate Requirements

CAR 1000 - Introduction to Carpentry

Credit(s): 1
Lecture Hour(s): 1
Formerly CAR 100 Provides a basic introduction to construction work for all crafts. This course specifically applies to construction sites.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1001 - Basic Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly CAR 101 An overview of safety concerns and procedures in the construction field.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1002 - Hand and Power Tools

Credit(s): 1
Lecture Hour(s): .25
Vocational Lab Hour(s): 1.12
Formerly CAR 102 Focuses on basic hand and power tools including stationary tools. Emphasizes a hands-on approach to proper and safe use of these tools as it applies to the construction environment and is taught in conjunction with a lab or framing class.

CAR 1005 - Job Site Layout and Blueprint Reading

Credit(s): 1
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 0.75
Formerly CAR 105 Introduces blueprint reading and how they apply to the construction site. Includes in-depth introduction to site layout (materials and methods).

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1021 - Floor Framing

Credit(s): 1
Lecture Hour(s): 0.25
Vocational Lab Hour(s): 1.12
Formerly CAR 121 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1022 - Wall Framing

Credit(s): 1
Lecture Hour(s): 0.25
Vocational Lab Hour(s): 1.12
Formerly CAR 122 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1023 - Roof Framing

Credit(s): 1
Lecture Hour(s): 0.25
Vocational Lab Hour(s): 1.12
Formerly CAR 123 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CAR 1070 - Clinical: Construction Lab I

Credit(s): 1
Clinic Hour(s): 2

Formerly CAR 170 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

CAR 1071 - Clinical: Construction Lab I

Credit(s): 1
Clinic Hour(s): 2

Formerly CAR 171 To be determined by the individual instructor. A Course Description will be developed for each

course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

CAR 1075-1077 - Special Topics

Credit(s): 0-12
Formerly CAR 175-177 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Elective Courses (3 Credits)

(Select 3 credit hours)

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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 2064 - Negotiation

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 264 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 2069 - Leadership

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 269 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.

Cosmetology Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Cosmetology program prepares students for job entry skills, customer communication, and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

The Cosmetology program has a selective admissions process. The program application and requirements are available in the Health & Public Safety Division office or at Pueblo Community College Cosmetology from Nov to June 1 (check with department after June 1). All Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. Not meeting the criteria specific to the Cosmetology program may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Apply to Cosmetology program by June 1

(If after June 1 contact the department chair for application)

Program Courses

Once you have applied and been accepted to the cosmetology program, you will be registered by the department into the courses listed below per semester.

All cosmetology core courses require program admission.

Total Credits: 56

General Education, First or Last (3 credits)

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

First Fall (18 credits)

COS 1003 - Shampoo/Rinses/Conditioners I

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 103 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 1010 - Introduction to Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 110 Introduces theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. This course covers basic application techniques and procedures for the application of haircolor.

COS 1020 - Introduction to Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 120 Introduces haircutting theory relevant to patron protection, angles, elevations, and the analysis of hair textures as related to hair cutting procedures. This course covers proper use and care of hair cutting implements, basic hair cutting techniques using various cutting implements, and disinfection and sanitation procedures as they relate to haircutting.

COS 1030 - Introduction to Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 130 Combines theory with the practical application of hairstyling. This course covers roller placement, hair molding and shaping, pin curls, finger waves, comb-out techniques, air forming, thermal straightening, or curling for short to long hair.

COS 1040 - Introduction to Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 140 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 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1

Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

NAT 1008 - Introduction to Manicures, Pedicures, and Artificial Nails

Credit(s): 3
Clinic Hour(s): 6

Formerly NAT 108 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.

EST 1010 - Introduction to Skin Care

Credit(s): 3
Clinic Hour(s): 6

Formerly EST 110 This course covers the study of skin in both theory and practical applications for skin care professionals. Topics included in the course are: skin structure and function, massage manipulations while providing facials and the benefits derived from a proper facial, and good skin care routines. Training is conducted in a classroom or lab setting using manikins or models.

EST 1011 - Intermediate Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1010.
Formerly EST 111 This course covers skin care and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students will help patrons to select the proper skin care treatment(s). Practical and theory application can be done in specialized classes or supervised salon setting using models or customer service.

First Spring (16 credits)

COS 1011 - Intermediate: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 111 Expands on haircoloring theory and practical application of color products, formulations of color, level and shades of color. Students will learn application techniques in a specialized class or in a supervised salon setting.

COS 1021 - Intermediate I: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020
Formerly COS 121 Expands on basic haircutting theory incorporating facial shapes, head and body forms to determine the appropriate techniques required to complete a client haircut. Students will apply hair cutting techniques in specialized classes or in the supervised salon.

COS 1031 - Intermediate I: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 131 This course covers the accepted methods of styling hair, air forming, roller sets, finger waves, pin curls, braiding, and hair pressing.

COS 1041 - Intermediate I: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 141 Emphasizes theory and practical application of chemical texture, including permanent waves and chemical relaxers, in a supervised salon setting. Students will practice different wrapping techniques required by trend styles in a classroom or salon setting.

COS 2030 - Intermediate II: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 230 This course covers accepted methods of styling hair, including: air forming, roller sets, iron sets, finger waves, braiding and hair pressing. Students will practice hairstyling techniques for client purposes in specialized classes or in a supervised salon setting.

COS 2040 - Intermediate II: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 240 This course covers theory of chemical texture and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Students will practice different wrapping techniques required by trend styles or per client request.

EST 2011 - Make-up for Skin Care Professionals

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): EST 1010.
Formerly EST 211 This course covers cosmetics and their functions for the skin care professional, including the

importance of color theory, facial types and skin tones as they relate to facial makeup. Topics in this course include: Instruction from the basic makeup application, corrective makeup procedures, and disinfection and sanitation pertaining to all aspects of makeup.

NAT 1059 - Intermediate Manicuring/Pedicures/Artificial Nails II

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 159 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.

EST 2012 - Hair Removal

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): EST 1010.
Formerly EST 212 This course covers 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.

Second Fall (19 credits)

COS 2003 - Shampoo/Rinses/Conditioners II

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1003.
Formerly COS 203 This course covers theory and practical training in shampoos, rinses, and conditioners and examines advanced techniques to prepare the student for employment. Instruction includes preparation for the Colorado State Board Licensing Examination for shampoos, rinses, and conditioners.

COS 2010 - Intermediate II: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 210 This course covers theory and practical application of color products, formulations of color, level and shades of color. Students will practice haircoloring techniques in a specialized class or in a supervised salon setting.

COS 2020 - Intermediate II: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020.
Formerly COS 220 This course covers haircutting theory related to facial shapes, head and body forms to determine the techniques necessary for client's specified haircut and practical applications of haircutting techniques for various client requests.

COS 2011 - Advanced Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1011.
Formerly COS 211 This course covers advanced theory and practical techniques in haircoloring. Course covers the recognition of color problems and color correction procedures in preparation for the Colorado State Board Licensing Examination. Topics in this course include: advanced techniques, color formulation, and product knowledge.

COS 2021 - Advanced Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1021.
Formerly COS 221 This course covers advanced haircutting techniques utilizing multiple cutting tools and emphasizes current fashion trends and preparation for the Colorado State Licensure examination.

COS 2031 - Advanced Hair Styling

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1031.
Formerly COS 231 This course covers hairstyling theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon work and specialized classes. Students will prepare for the Colorado State Board Licensing Examination.

COS 2041 - Advanced Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1041.
Formerly COS 241 This course covers advanced techniques for chemical texture and current industry standards of practice to prepare the student for employment and the State Board Licensing Examination. Instruction is provided in specialized classes or supervised salon setting.

NAT 1058 - Intermediate Manicuring, Pedicures, and Artificial Nails

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 158 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 2008 - Advanced Manicuring/Pedicures/Artificial Nails

Credit(s): 4
Clinic Hour(s): 8

Formerly NAT 208 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.

EST 2010 - Advanced Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1011.
Formerly EST 210 This course covers advanced techniques for massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment and preparation for State Board Licensing Examination. Instruction is provided in specialized classes or in a supervised salon setting.

Cosmetology, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Cosmetology AAS program prepares students for job entry skills, customer communication, and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

The Cosmetology program has a selective admissions process. The program application and requirements are available in the Health & Public Safety Division office or at Pueblo Community College Cosmetology from Nov to June 1 (check with department after June 1). All Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. Not meeting the criteria specific to the Cosmetology program may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Cosmetology AAS degree

(Note: general education courses may be taken before or after Cosmetology core courses. All cosmetology core courses require program admission)

Apply to Cosmetology program by June 1

(If after June 1 contact the department chair for application)

Program Courses

Once you have applied and been accepted to the cosmetology program, you will be registered by the department into the courses listed below per semester.

All cosmetology core courses require program admission.

Total Credits: 68

General Education (15 credits)

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

ENP 1005 - Introduction to Entrepreneurship

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 105 Explores the business skills, personality traits, and commitment necessary to successfully plan, launch, and grow an entrepreneurial venture. This course will cover the challenges and rewards of entrepreneurship. This course will cover the role of entrepreneurial businesses in the United States and the world and their impact on our national and global economy.

ENP 2005 - Marketing for the Entrepreneur

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 205 Covers marketing strategies to launch and sustain an entrepreneurial venture. This course will include topics on marketing entrepreneurial ventures utilizing innovative and financially responsible marketing strategies. This course will help students to develop an understanding of entrepreneurial marketing goals and objectives. The course covers marketing principles and electronic marketing.

ENP 2006 - Entrepreneurship Legal Issues

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 206 Explores legal issues related to business entities including sole proprietorship, general partnerships, limited partnerships, and corporations. This course reviews articles of incorporation and the filing process, employment law, property, landlord tenant rights and duties, and business insurance.

ENP 2007 - Entrepreneurship Financial Topics

Credit(s): 3
Lecture Hour(s): 3
Formerly ENP 207 Will cover topics such as financial planning for entrepreneurs, understanding tax considerations, understanding financial documents, financial ratio analysis, cash flow management, cost of capital and budgeting, raising capital, valuation, risk assessment, and venture exits.

First Fall (18 credits)

COS 1003 - Shampoo/Rinses/Conditioners I

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 103 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 1010 - Introduction to Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 110 Introduces theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. This course covers basic application techniques and procedures for the application of haircolor.

COS 1020 - Introduction to Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 120 Introduces haircutting theory relevant to patron protection, angles, elevations, and the analysis of hair textures as related to hair cutting procedures. This course covers proper use and care of hair cutting implements, basic hair cutting techniques using various cutting implements, and disinfection and sanitation procedures as they relate to haircutting.

COS 1030 - Introduction to Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 130 Combines theory with the practical application of hairstyling. This course covers roller placement, hair molding and shaping, pin curls, finger waves, comb-out techniques, air forming, thermal straightening, or curling for short to long hair.

COS 1040 - Introduction to Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 140 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 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

NAT 1008 - Introduction to Manicures, Pedicures, and Artificial Nails

Credit(s): 3
Clinic Hour(s): 6

Formerly NAT 108 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.

EST 1010 - Introduction to Skin Care

Credit(s): 3
Clinic Hour(s): 6

Formerly EST 110 This course covers the study of skin in both theory and practical applications for skin care professionals. Topics included in the course are: skin structure and function, massage manipulations while providing facials and the benefits derived from a proper facial, and good skin care routines. Training is conducted in a classroom or lab setting using manikins or models.

EST 1011 - Intermediate Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1010.
Formerly EST 111 This course covers skin care and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students will help patrons to select the proper skin care treatment(s). Practical and theory application can be done in specialized classes or supervised salon setting using models or customer service.

First Spring (16 credits)

COS 1011 - Intermediate: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 111 Expands on haircoloring theory and practical application of color products, formulations of color, level and shades of color. Students will learn application techniques in a specialized class or in a supervised salon setting.

COS 1021 - Intermediate I: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020
Formerly COS 121 Expands on basic haircutting theory incorporating facial shapes, head and body forms to determine the appropriate techniques required to complete a client haircut. Students will apply hair cutting techniques in specialized classes or in the supervised salon.

COS 1031 - Intermediate I: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 131 This course covers the accepted methods of styling hair, air forming, roller sets, finger waves, pin curls, braiding, and hair pressing.

COS 1041 - Intermediate I: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 141 Emphasizes theory and practical application of chemical texture, including permanent waves and chemical relaxers, in a supervised salon setting. Students will practice different wrapping techniques required by trend styles in a classroom or salon setting.

COS 2030 - Intermediate II: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 230 This course covers accepted methods of styling hair, including: air forming, roller sets, iron sets, finger waves, braiding and hair pressing. Students will practice hairstyling techniques for client purposes in specialized classes or in a supervised salon setting.

COS 2040 - Intermediate II: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 240 This course covers theory of chemical texture and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Students will practice different wrapping techniques required by trend styles or per client request.

EST 2011 - Make-up for Skin Care Professionals

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): EST 1010.
Formerly EST 211 This course covers cosmetics and their functions for the skin care professional, including the importance of color theory, facial types and skin tones as they relate to facial makeup. Topics in this course include: Instruction from the basic makeup application, corrective makeup procedures, and disinfection and sanitation pertaining to all aspects of makeup.

NAT 1059 - Intermediate Manicuring/Pedicures/Artificial Nails II

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 159 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.

EST 2012 - Hair Removal

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): EST 1010.
Formerly EST 212 This course covers 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.

Second Fall (19 credits)

COS 2003 - Shampoo/Rinses/Conditioners II

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1003.
Formerly COS 203 This course covers theory and practical training in shampoos, rinses, and conditioners and examines advanced techniques to prepare the student for employment. Instruction includes preparation for the Colorado State Board Licensing Examination for shampoos, rinses, and conditioners.

COS 2010 - Intermediate II: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 210 This course covers theory and practical application of color products, formulations of color, level and shades of color. Students will practice haircoloring techniques in a specialized class or in a supervised salon setting.

COS 2020 - Intermediate II: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020.
Formerly COS 220 This course covers haircutting theory related to facial shapes, head and body forms to determine the techniques necessary for client's specified haircut and practical applications of haircutting techniques for various client requests.

COS 2011 - Advanced Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1011.
Formerly COS 211 This course covers advanced theory and practical techniques in haircoloring. Course covers the recognition of color problems and color correction procedures in preparation for the Colorado State Board Licensing Examination. Topics in this course include: advanced techniques, color formulation, and product knowledge.

COS 2021 - Advanced Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1021.
Formerly COS 221 This course covers advanced haircutting techniques utilizing multiple cutting tools and emphasizes current fashion trends and preparation for the Colorado State Licensure examination.

COS 2031 - Advanced Hair Styling

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1031.
Formerly COS 231 This course covers hairstyling theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon work and specialized classes. Students will prepare for the Colorado State Board Licensing Examination.

COS 2041 - Advanced Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1041.
Formerly COS 241 This course covers advanced techniques for chemical texture and current industry standards of practice to prepare the student for employment and the State Board Licensing Examination. Instruction is provided in specialized classes or supervised salon setting.

NAT 1058 - Intermediate Manicuring, Pedicures, and Artificial Nails

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 158 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 2008 - Advanced Manicuring/Pedicures/Artificial Nails

Credit(s): 4
Clinic Hour(s): 8

Formerly NAT 208 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.

EST 2010 - Advanced Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1011.
Formerly EST 210 This course covers advanced techniques for massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment and preparation for State Board Licensing Examination. Instruction is provided in specialized classes or in a supervised salon setting.

Criminal Justice, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Criminal Justice prepares students to transfer as juniors to a four-year institution in Colorado to pursue a bachelor's degree in criminal justice. Graduates can seek a career in federal, state and local criminal justice agencies. This includes correctional institutions, juvenile corrections and varied treatment facilities, law enforcement agencies, courts, private security and forensic investigation work.

Program Description

Courses in the criminal justice degree provide an in-depth analysis of the three main components of the criminal justice system, law enforcement, the judicial system and corrections, with special emphasis on criminology, substantive criminal law and constitutional law. The AA degree coursework requires students learn reading and comprehension skills, written and verbal communication skills, and cultural diversity awareness.

Program Requirements

Students must meet all admission and application requirements at the receiving institution including the submission of all required documentation stated deadlines. In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Criminal Justice advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer. To earn an AA degree with Designation in Business, you must complete at least 60 college-level credits, as described below:

Disclaimer

If you have any prior arrests and/or drug/alcohol history, you should discuss this history with a Criminal Justice advisor prior to beginning courses toward this degree. Neither PCC nor the Criminal Justice Department or advisors will be held liable for your decision to continue in pursuit of the degree if you have such a history. Many criminal justice employers will not hire students with a past history of arrests or convictions regardless of the type of offense.

Your entrance into any criminal justice course of study, or your subsequent graduation, is no guarantee, explicit or implied, that you are employable in the criminal justice field.

Many criminal justice and related agencies require certain standards prospective employees must meet at the application stage. Job applications will ask if you have ever been arrested for any offense, either misdemeanor or felony. If you have, your prospective employer may deny your application. You may also be required to take psychological tests, lie detector tests, medical tests and physical fitness tests to determine if you are suited to a particular position.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31-33 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3** and a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (3-4 Credits)

- One GT Pathways course (GT-MA1, prefer MAT 13: Introduction to Statistics, except:

University of Colorado

- University of Colorado - Colorado Springs **prefers** MAT 1240 - Mathematics for the Liberal Arts: GT-MA1;

Colorado Mesa University

- Colorado Mesa University **requires** either MAT 1240 - Mathematics for the Liberal Arts: GT-MA1 **or** MAT 1340 - College Algebra: GT-MA1;

University of Northern Colorado

- University of Northern Colorado **requires** MAT 1260 - Introduction to Statistics: GT-MA1

Natural and Physical Sciences (7-8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1 **or** GT-SC2) * At least one of these courses must include a laboratory component (GT-SC1) *

Arts & Humanities (6 Credits)

(Select two courses from two different categories):

- GT-AH1, GT-AH2, GT-AH3, GT-AH4 *

Social and Behavioral Sciences (6 Credits)

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

- select one additional GT Pathways Human Behavior, Culture, or Social Frameworks course (GT-SS3) *

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Courses (27 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1010 - Intro to Criminal Justice: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 110 Introduces the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives, and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1025 - Policing Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 125 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 1045 - Correctional Process

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 145 Examines the history of corrections in America from law enforcement through the administration of justice, probation, prisons, correctional institutions, and parole. This course examines the theories, rationales for punishment, and the political system in which corrections, as a component part of the criminal justice system, needs to operate. The course emphasizes legal, sociological, psychological, and other interdisciplinary approached that effect the operation of a correctional system.

Choose Two Courses from the Following (6 Credits)

CRJ 1027 - Crime Scene Investigation

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 127 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 1035 - Judicial Function

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 135 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 2005 - Principles of Criminal Law

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 205 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 2009 - Criminal Investigation I

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 209 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 2030 - Criminology

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 230 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 2031 - Introduction to Forensic Science and Criminalistics

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 231 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 2035 - Delinquent Behavior

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 235 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 2036 - CRJ Research Methods

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 236 Focuses on the formulation of research questions covering crime and justice, research designs, data collection, and the interpretation and reporting of these data in criminological and justice-system settings. Course content also includes experimental and non-experimental research designs, probability and non-probability sampling techniques, and construction of scales and indexes for research purposes.

CRJ 2068 - Criminal Profiling

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 268 Examines the theories of crime causation in relationship to criminal profiling. Studies include the investigation of serial killers, their motivations, behaviors, and identification of psychological and sociological explanations related to criminal acts.

Choose Three Courses from the Following (9 Credits)

Note: If these courses are applied to this second section of the Prescribed Curriculum (Additional Required Courses) for credit, they may **not** be applied to the first section of the Prescribed Curriculum (General Education Requirements) for credit.

CNG 2058 - Digital Forensics

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50

Prerequisite(s): CNG 1032
Formerly CNG 258 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.

COM 2220 - Group Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 217 Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1025 - American State and Local Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 125 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 is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSY 2770 - Introduction to Forensic Psychology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 207 Provides an overview of forensic psychology. This course explores both current research and practice in police psychology, criminal psychology, victimology, correctional psychology, and the interface of psychology and the courts. This course facilitates an understanding of the numerous careers related to forensic psychology and how to prepare for them.

PSY 2107 - Human Sexuality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 217 Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

Electives (0-2 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Colorado Mesa University (B.A. Criminal Justice; Criminal Justice or Law Enforcement concentrations)
- Colorado State University – Global Campus (B.S. Criminal Justice and Law Enforcement Administration; B.S Human Services
- Metropolitan State University of Denver (B.S. Criminal Justice & Criminology)
- University of Colorado, Colorado Springs (B.A. Criminal Justice)
- University of Colorado, Denver (B.A. Criminal Justice)
- University of Northern Colorado (B.A. Criminal Justice)

Criminology, AA (CSU-P Transfer)

See list of Department Chairs on the Personnel page.

Career Opportunities

The criminal justice program prepares you to transfer as a junior to a four-year institution to pursue a Bachelor of Science degree in sociology or criminal Justice, after which you can pursue a career in federal, state and local adult correctional institutions, juvenile corrections and treatment facilities, law enforcement, forensics, private security and private investigations.

Program Description

The criminal justice program provides an in-depth analysis of the three components of the criminal justice system (law enforcement, the judicial system and corrections) with special emphasis on criminology, substantive criminal law, procedural criminal law and constitutional law. It places a strong emphasis on reading and comprehension skills, written and verbal communication skills and empathic awareness of cultural diversity.

Disclaimer

If you have any prior arrests and/or drug/alcohol history, you should discuss this history with a Criminal Justice advisor prior to beginning courses toward this degree. Neither PCC nor the Criminal Justice Department or advisors will be held liable for your decision to continue in pursuit of the degree if you have such a history. Many criminal justice employers will not hire students with a past history of arrests or convictions regardless of typology of offense.

Your entrance into any criminal justice course of study, or your subsequent graduation, is no guarantee, explicit or implied, that you are employable in the criminal justice field. Further, if you cannot be placed and/or remain in the course CRJ 2080 - Cooperative Education/internship, after two good-faith attempts at placement, neither PCC nor its employees accept responsibility in respect to your inability to complete or meet fulfillment requirements of the degree.

Many criminal justice and related agencies require certain standards prospective employees must meet at the application stage. Job applications will ask if you have ever been arrested for any offense, either misdemeanor or felony. If you have, your prospective employer may deny your application. You may also be required to take psychological tests, lie detector tests, medical tests and physical fitness tests to determine if you are suited to a particular position.

Program Requirements

Entrance Requirements:

This is an open enrollment program.

Graduation Requirements:

A grade of "C" or higher is required in each course.

Total Credits: 60

General Education Core Requirements (39 Credits)

Communication (9 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Mathematics (4 Credits)

MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 120 Highlights connections between mathematics and the society in which we live and is intended for liberal arts majors. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (8 Credits)

Select two courses:

AST 1110 - Astronomy I With Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 101 Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 102 Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT- SC1 category.

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy,

observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and CHE 1011
Formerly CHE 102 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, Intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1005 - Chemistry in Context with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 105 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MET 1050 - General Meteorology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly MET 150 Provides an introduction to general meteorology and atmospheric sciences. Includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature,

pressure, and moisture. Examines the development of weather system, such as storm systems, hurricanes, weather fronts, and cloud development. Stresses the concepts of climatology. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4

Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (6 Credits)

Choose six credits from two different disciplines.

ART 1110 - Art Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 110 Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1113 - Art History

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 207 Introduces the concepts necessary to understand modern visual art, with an emphasis on world art of the 20th century. This course surveys world art of the 20th century, including Modernism to Post-Modernism. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

FRE 2011 - French Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FRE 1012
Formerly FRE 211 Continues the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

FRE 2012 - French Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FRE 2011
Formerly FRE 212 Continues the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category.

GER 2011 - German Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): GER 1012
Formerly GER 211 Continues the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the German language. This course is conducted predominantly in German. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

GER 2012 - German Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): GER 2011
Formerly GER 212 Continues the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the German language. This course is conducted predominantly in German. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

HUM 1021 - Humanities: Early Civilization: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 121 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among diverse cultures, including European and non-European, from the prehistoric to the early medieval era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1022 - Humanities: Medieval - Modern: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 122 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the medieval to the early modern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1023 - Humanities: Modern World: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 123 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the

visual, performing, and literary arts, emphasizing connections among global cultures from the European Enlightenment to the postmodern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021.
Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2001 - World Literature to 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 201 Examines significant writings in world literature from the ancients to the seventeenth century. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2002 - World Literature After 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 202 Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2005 - Race. Ethnicity, and Culture in U.S. Literature: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 205 Examines the cultural, historical, and social contexts impacting multiple ethnic American identities through critical reading and analysis. This course focuses on significant works by authors who identify as African American, Native American, Latino/a, Asian American, and other ethnicities. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2011 - American Literature to Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 211 Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2012 - American Literature After Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 212 Examines American literary works from 1865 to the present, distinguishing among literary themes, genres, and schools of thought that illustrate historical and social contexts across a multicultural spectrum. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

MUS 1020 - Music Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 120 Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western, and non-Western historical style periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1021 - Music History Medieval Thru Classical Period: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 121 Provides an historical survey of Western art music from the Middle Ages into the Classical period, including styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1022 - Music History Early Romantic Period to the Present: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 122 Provides an historical survey of Western art music connecting the classical period to the Romantic period and following to the present. This course includes the study of styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1014 - Comparative Religions: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 114 Introduces the major religions of the Eastern and Western world. Covers Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Utilizes methods of religious studies to understand the historical development of each religious tradition as well its worldview and teachings. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2014 - Philosophy of Religion: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 214 Focuses on the critical analysis and evaluation of the fundamental concepts, ideas, and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of ultimate reality, arguments concerning God`s existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience, and religious diversity. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

SPA 2011 - Spanish Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): SPA 1012
Formerly SPA 211 Continues Spanish Language II in the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

SPA 2012 - Spanish Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): SPA 2011
Formerly SPA 212 Continues Spanish Language III in the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

THE 1005 - Theatre Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 105 Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience:

scripts, acting, directing, staging, history, criticism, and theory. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2011 - Development of Theatre Greek-Renaissance: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 211 Surveys the history and development of theatrical practices from Ancient Greece to the Renaissance as well as non-western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2012 - Development of Theatre Restoration to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 212 Surveys the history and development of theatrical practices from Restoration to the present as well as non-Western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

History (3 credits)

Select three credits in the HIS prefix..

HIS 1110 - The World: Antiquity-1500: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 111 Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This course focuses on common cultural trends. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1120 - The World: 1500-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 112 Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through the perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions

in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 101 Explores trends within events, peoples, groups, ideas, and institutions in Western Civilization from antiquity to 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1320 - Western Civ: 1650-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 102 Explores trends within events, peoples, groups, ideas, and institutions in Western civilization since 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2015 - 20th Century World History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 247 Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states since the late nineteenth century. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1category. GT-HI1

HIS 2080 - Internship

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department approval required.

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.

HIS 2115 - American Indian History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Formerly HIS 208 Analyzes historical and socio-cultural change for Native Americans from pre-colonial America to the present, emphasizing those processes and relations with non-Native Americans which have contributed to current conditions. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2135 - Colorado History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 225 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, mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2300 - The Middle Ages:GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 255 Examines political, social, cultural, economic and intellectual developments in Europe, Byzantium and the Islamic world from the collapse of Rome through the Renaissance, approximately A.D. 400-1400. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Social and Behavioral Sciences (9 Credits)

Select nine credits in at least two disciplines.

ANT 1001 - Cultural Anthropology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 101 Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English
Formerly ANT 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

GEO 1005 - World Regional Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 105 Examines the spatial distribution of environmental and societal phenomena in the world's regions. Environmental phenomena includes topography, climate, and natural resources. Societal phenomena includes patterns of population and settlement, religion, ethnicity, language, and economic development. This course also analyzes the characteristics that define world regions and distinguishes them from each other. This course examines the relationships between physical environments and human societies, and examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

GEO 1006 - Human Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 106 Introduces geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. This course examines the relationships between physical environments and human societies. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 101 Explores trends within events, peoples, groups, ideas, and institutions in Western Civilization from antiquity to 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1320 - Western Civ: 1650-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 102 Explores trends within events, peoples, groups, ideas, and institutions in Western civilization since 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1110 - The World: Antiquity-1500: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 111 Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This course focuses on common cultural trends. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1120 - The World: 1500-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 112 Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through the perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2015 - 20th Century World History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 247 Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states since the late nineteenth century. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1category. GT-HI1

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSC 2020 - Introduction to Political Science: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 105 Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments and processes, and international relations. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2105 - Psychology of Gender: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 205 Examines gender comparisons in work, courtship, family life, and sexual behavior throughout the life span. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2107 - Human Sexuality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 217 Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2222 - Psychology of Death and Dying: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 227 Examines philosophies of life and death emphasizing dying, death, mourning, and the consideration of one's own death. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2441 - Child Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 238 Focuses on the growth and development of the individual, from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 102 Examines the basic concepts, theories, and principles of sociology, including topics of family, religion, education, politics, the economy, health, demography, the environment and social movements through a local and global lens. Analyzes and interprets socio-historical as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 2005 - Sociology of Family Dynamics: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 205 Offers a critical exploration of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations locally and globally. Explores the stability and evolution of the family, along with current trends and a range of family forms. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2015 - Contemporary Social Problems: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 215 Investigates current social issues that result in societal problems. Focuses on numerous areas including, but not limited to, the loss of civil liberties, concentration of media ownership, gender discrimination, hate crimes, poverty, hunger, environmental degradation, racism and prejudice, as well as social change. Addresses ways to ameliorate these social ills. GT-SS3

SOC 2016 - Sociology of Gender: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 216 Examines major trends and theoretical approaches within the field of sociology of gender including the impact of intersecting social markers such as race, class, sexuality and gender identities. Addresses gender performance, stratification and inequalities in micro and macro settings in the U.S. Focuses on social movements relating to identities and institutional inequalities. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

WST 2000 - Introduction to Women's Studies: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly WST 200 Explores the interdisciplinary field of women's studies. This course is an examination of the following topics: the historical basis of gender inequality; the history of social movements for gender equality and women's studies; women's achievements throughout history in various professional and academic fields; women's social, economic, religious, health and political status in the U.S. and around the globe; gender relations; intersectionality; cultural, media and artistic representations of women. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer Courses, GT-SS3.

Core Curriculum Requirements (21 Credits)

CRJ 1010 - Intro to Criminal Justice: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 110 Introduces the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives, and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1025 - Policing Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 125 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 1035 - Judicial Function

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 135 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 1045 - Correctional Process

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 145 Examines the history of corrections in America from law enforcement through the administration of justice, probation, prisons, correctional institutions, and parole. This course examines the theories, rationales for punishment, and the political system in which corrections, as a component part of the criminal justice system, needs to operate. The course emphasizes legal, sociological, psychological, and other interdisciplinary approached that effect the operation of a correctional system.

CRJ 2005 - Principles of Criminal Law

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 205 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 2010 - Constitutional Law

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 210 Focuses on the powers of government as they are allocated and defined by the United States Constitution. The course includes intensive analysis of United States Supreme Court decisions.

CRJ 2030 - Criminology

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 230 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.

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Colorado State University Global (BS Criminal Justice and Law Enforcement Administration
- Colorado State University, Pueblo (Sociology with a Criminology emphasis)

Cybersecurity AAS

See list of Department Chairs on the Personnel page.

Program Description

The Computer Information Systems program provides skills to ensure networks are secure. You will learn about essential principles of networking, security maintenance, and troubleshooting. If you plan to transfer a bachelor's degree, refer to the Transfer Degree section or speak with an advisor.

Career Options

The CIS Cybersecurity degree provides training to become a network security technician.

Total Credits: 61

Semester One, Fall (16 credits)

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

Semester Two, Spring (16 credits)

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

CNG 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50

Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.
*Recommended

Semester Three, Summer (3 credits)

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 133 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.

Semester Three, Fall (13 credits)

CNG 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

- Elective: Choose 2 from the elective list below **Credit(s): 6**

Semester Four, Spring (13 credits)

CNG 1004 - Intro to TCP/IP

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 104 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 2056 - Vulnerability Assessment Level 1

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032 or CNG 2001
Formerly CNG 256 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 2058 - Digital Forensics

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): CNG 1032
Formerly CNG 258 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.

CIS 2087 - Cooperative Education

Credit(s): 1-12
Internship Hour(s): 3-36
Formerly CIS 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Electives

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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.

CNG 1042 - Introduction to Cloud Computing Concepts

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 142 Introduces fundamental content on cloud computing including system analysis, requirements, configuration, deployment, and testing. This course includes information on management, business continuity, security, maintenance, updating, and troubleshooting as related to cloud computing.

CSC 2067 - Object-Oriented Analysis and Design

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 267 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.

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3

Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CNG 2057 - Network Defense and Counter Measure

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032
Formerly CNG 257 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.

- Any course with HIT prefix **Credit(s): 3**

Cybersecurity BAS

See list of Department Chairs on the Personnel page.

Program Description

The BAS degree in Cybersecurity consists of 120 credits. As a stackable credential, 60 or more credits from a relevant Associate Degree will meet BAS degree requirements. The degree is designed so that students who have earned an AAS degree in Cybersecurity or Secure Software Development will be prepared to enter the program as a junior.

Career Options

Information Security Analysts, Penetration Testers, Network and Computer Systems Administrators, Computer Systems Analysts

Total Credits: 120

General Education Requirements (16 credits)

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

- Choose two additional General Electives **Credit(s): 6**

Upper Division Core Requirements (31 credits)

CNG 3020 - Cyber Law Ethics and Policy

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Covers ethical and legal issues that arise in relation to employment in the public and private sectors. The main focus of the course will be the ethical and legal standards governing information technology. This course provides a framework for making ethical decisions.

CNG 3036 - Business Continuity and Disaster Recovery

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Covers business continuity and disaster recovery principles including business impact analysis, assessment of risk, development of policies and procedures, and implementation of a plan. The course also covers securing, recovering, and restoring the organization's critical data in the aftermath of a disaster.

CNG 3040 - Cyber Operations

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5

Covers concepts of Confidentiality, Integrity, and Availability (CIA) basics together with authentication and non-repudiation; vulnerabilities; security principles and testing; operating systems; and cryptography. The course meets the requirements for security fundamental principles as well as the identification and mitigation of security vulnerabilities.

CNG 3050 - Cyber Investigation and Forensics

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Covers intrusion detection methodologies, tools, and approaches to incident response. This course explores the ethical and legal issues attendant to cyber investigations and forensics.

CNG 3056 - Vulnerability Assessment II

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Provides an in-depth understanding of ethical hacking phases, various attack vectors, and preventative countermeasures including how hackers think and act maliciously. The course also covers how organizations use found system weaknesses and vulnerabilities to strengthen their system security controls and minimize the risk of an incident. This course covers an active offensive defense posture toward the responsibilities and measures required to be secure.

CNG 4000 - Active Cyber Defense

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Introduces the policies, techniques, and operational capabilities and limitations of implementing an Active Cyber Defense program. A broad survey of development of defensible network architectures; integration of passive defensive technologies; consumptions and production of Cyber Threat Intelligence (CTI) products; implementation of Network Security Monitoring (NSM) and Hunt Teaming (HT) operations; employment of Incident Response (IR) plans; and Threat and Environment Manipulation techniques (TEM) will be presented.

CNG 4010 - Cyber Threat Intelligence

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Provides an in-depth investigation of threat actors and the techniques they employ to attack networks. This course covers threat capabilities and objectives. Formal ethical hacking methodology including reconnaissance, scanning and enumeration, gaining access, escalation of privilege, maintaining access, and reporting is examined.

CNG 4080 - Internship

Credit(s): 0-12
Internship Hour(s): 0-36
To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Upper Division Emphasis Requirements (12 credits)

Choose three.

CNG 3010 - Fundamentals of Cybersecurity

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Introduces the fundamentals of cybersecurity including a broad survey of cybersecurity concepts, tools, technologies, and best practices.

CNG 3030 - Methods of Network Analysis

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Provides a methodology for analyzing networks by examining the network at its infrastructure, network, and application layers. The course explores how networks transfer data, how network protocols enable communication, and how the lower-level network layers support the upper layers.

CNG 4020 - Zero Trust Networks

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
N/A

CNG 4030 - Cyber War

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Introduces what constitutes cyber warfare along with its policy, doctrine, and operational constraints. This course presents a broad survey of cyber tools, techniques, and procedures to practice and implement attack methodologies.

CNG 4054 - Malware Threats and Analysis

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Covers methodologies to safely perform static and dynamic analysis of code from potentially unknown origins, including obfuscated malware in order to better understand the software's purpose and functionality. This course covers the fundamental principles of malware analysis and software reverse engineering.

Dental Hygiene, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The Dental Hygiene program prepares you for a career in a variety of professional settings. The most familiar setting is the private dental office, where hygienists perform critical services to detect and prevent diseases of the mouth. Beyond the private dental office, you can find employment in nursing homes and long-term care facilities, hospitals, corporate health facilities, school systems and public health clinics. You may also work as an educator or researcher.

Program Description

The AAS Degree prepares you to provide dental hygiene services to patients and educate them in aspects of preventive dentistry. In our on-campus clinic, you will provide preventive and therapeutic services for patients under the supervision of Dental Hygiene faculty.

In the traditional role of dental hygienist, training includes prophylaxis, patient data gathering for dental hygiene diagnosis and treatment planning, fluoride treatment, sealant application, radiographic examination and nutritional counseling. In the expanded role of the dental hygienist, training includes treatment of periodontally-involved patients and treatment of handicapped, institutionalized and other medically compromised patients. You also learn to perform local anesthesia and administer nitrous oxide.

Because of the high level of personal and professional responsibility required of a dental hygienist, you must have integrity, maturity, individual motivation, good interpersonal skills, excellent manual dexterity and a solid science and general studies academic background to be successful in this program. We are firmly committed to fostering your intellectual growth and to developing well-qualified dental hygienists with high professional standards and ethics.

The Mini-Certificate in Local Anesthesia and Nitrous Oxide/Oxygen Sedation provides you with knowledge of the theory and practice of local anesthesia and nitrous oxide/oxygen sedation. This program teaches you to administer local anesthetics and nitrous oxide proficiently and safely. The administration of local anesthesia and nitrous oxide/oxygen sedation may be performed by licensed dental hygienists under the Colorado State Dental Practice Act. You must be currently enrolled in the Dental Hygiene program to enter this program.

Program Requirements

Entrance Requirements:

You must complete a current Dental Hygiene program application and meet all minimum requirements and application timelines. The application is available through the Dental Hygiene program, at the PCC Dental Hygiene website or in Admissions & Records. You should seek advisement from program faculty for assistance with applications, minimum requirements and required general education courses for admissions. In addition, all students entering the program will need a current CPR card good for 2 years.

If you are an AAS Dental Hygiene student, you must complete all General Education/Related Requirements.

Note: All students are accepted provisionally pending completion of a criminal background check. Disclaimer: The Colorado Board of Dental Examiners requires a dental hygienist applying for licensure 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.

Optional course: DEH 2066 is offered in the last semester of the program and highly encouraged to students taking their licensing exam.

Total Credits: 92.5

Degree Requirements

General Education Requirements (28 Credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1009 - General, Organic, and Biochemistry

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 109 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.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

* Within five years of application

Core Curriculum Requirements (64.5 Credits)

First Year-Fall Semester (14 Credits)

DEH 1001 - Preclinical Dental Hygiene Lecture

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 101 Introduces basic dental hygiene theory, instrumentation, and patient care assessment. Focuses on

the application of diagnostic, preventive, and therapeutic procedures in a wide variety of areas related to clinical practice, health promotion, and disease prevention.

DEH 1002 - Preclinical Dental Hygiene Care

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 102 Introduces the entry-level dental hygiene student to fundamental procedures and techniques to include instrumentation, infection control, and patient assessment. Provides a variety of clinical learning experiences to develop basic skills and knowledge for entry into the dental hygiene profession.

DEH 1003 - Dental Anatomy and Histology

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 103 Introduces the general anatomy of the face including terminology, anatomic landmarks, and tooth identification. Specific focus is placed on the anatomical and histologic features of the teeth and other structures of the oral cavity. Introduction to the embryology of the face, oral, and nasal cavities is presented, as well as development of the teeth and histological features of the various components of the teeth and surrounding structures.

DEH 1004 - Dental Radiology

Credit(s): 3
Lecture Hour(s): 2
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 104 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 1005 - Introduction to Dental Hygiene

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 105 Provides the first year dental hygiene student with the basic knowledge, theory, and skill necessary to advance to subsequent clinical dental hygiene courses. This course includes an introduction to the principles of basic instrument recognition, expected professional and ethical behaviors, HIPAA and FERPA compliance, OSHA standards for infection control, dental software systems, oral hygiene instruction, dental hygiene care planning for the patient, and proper consent form documentation.

DEH 2002 - Applied Nutrition in Dentistry

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 202 Builds a foundational knowledge of general nutrition in relation to nutrient functions, sources and their impact on the body with a focus on the oral cavity. This course covers integration of physiological and behavioral concepts through the implementation of dietary assessment and nutritional intervention during the process of dental hygiene care.

First Year-Spring Semester (13.5 Credits)

DEH 1011 - Dental and Medical Emergencies

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 111 Introduces the management of emergency situations in the dental office setting. Explains the management of emergency situations with an emphasis on prevention and identification of potential medical emergencies that can occur in the dental office or during dental treatment. Provides practical skills applicable to dental hygienists and the scope of responsibility for medical emergency management as dictated by state dental practice law. Includes content and use of emergency kits, oxygen support systems, use of ASA classification to evaluate risk, and emergency management simulations.

DEH 1022 - Periodontics I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 122 Introduces the principles of periodontics with a focus on the recognition of tissues in health and disease, macro and microanatomy of the periodontium, and histopathology of periodontal diseases and other related gingival conditions. This course explains the theory and discussion of periodontal assessment, etiology, epidemiology, inflammatory process/immune response, and the American Academy of Pediatrics (AAP) Periodontal Disease Classification System.

DEH 1023 - Head & Neck Anatomy

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 123 Analyzes the anatomy and function of the head and neck with emphasis on the muscles of mastication and facial expression, bones of the head and neck, the temporomandibular joint, lymphatic, glandular system, vascular supply, nervous system, and the oral cavity.

DEH 1026 - Dental Materials

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 126 Examines the science of dental materials providing a sound knowledge of the use and function of

these materials in clinical practice. Covers didactic and laboratory experiences of the physical properties, chemistry, and clinical applications of the materials used in the practice of dentistry.

DEH 1053 - Clinical Theory of Dental Hygiene I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 153 Builds on the broad theoretical basis provided in DEH 1001and DEH 1002. Focuses on enhancing patient assessment skills, instrumentation and additional information on preventative and prophylactic clinical procedures.

DEH 1070 - Clinical Practice of Dental Hygiene I

Credit(s): 4.50
Clinic Hour(s): 9

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 170 Creates direct clinical experience for the student dental hygienist by providing an opportunity to treat a variety of patients utilizing assessment, instrumentation, and additional preventative clinical procedures.

Second Year-Summer Semester (6 Credits)

DEH 1033 - Local Anesthesia

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 133 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 1034 - Advanced Clinical Skills

Credit(s): 1
Lecture Hour(s): 0.70
Clinic Hour(s): 0.60

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 134 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 1038 - Nitrous Oxide/Oxygen Sedation

Credit(s): 1
Lecture Hour(s): 0.80
Clinic Hour(s): 0.40

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 138 Develops a working knowledge of the equipment and methods used to administer nitrous oxide/oxygen sedation in the dental office.

DEH 1071 - Clinical Practice of Dental Hygiene I-A

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 171 Provides patient care opportunities for the performance of dental hygiene treatment. Treatment will be provided to both periodontally-compromised and healthy patients utilizing advanced instrumentation and power scaling.

Second Year Fall Semester (17 Credits)

DEH 1032 - Applied Pharmacology

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 132 Examines general pharmacology and discusses relevant drugs that may influence the management of dental hygiene patients. Completion of the course enables students to perform safe and effective evaluations of patients for dental hygiene treatment.

DEH 2004 - Community Dental Health I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 204 Develops knowledge in the concepts, methods, and social determinants of health related to improving oral health in the community. Emphasis is placed on evidence-based strategies for the development of oral health promotion, oral disease prevention and oral health management programs.

DEH 2013 - General and Oral Pathology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 213 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 2042 - Periodontics II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 242 Continues to explore theoretical/clinical preparations with emphasis on dental hygiene process of care, treatment planning, non-surgical treatment, evaluation of treatment, and maintenance needs of the periodontal patient. Develops research and decision making skills with use of library and Internet resources relating to risk factors,

etiologic agents, and treatment modalities. Includes comprehensive periodontal assessment, supplemental diagnostics, periodontal pharmacology, and evidence based treatment planning.

DEH 2068 - Clinical Theory of Dental Hygiene II

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 268 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 2070 - Clinical Practice of Dental Hygiene II

Credit(s): 6
Clinic Hour(s): 12

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 270 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.

Second Year-Spring Semester (14 Credits)

DEH 2021 - Ethics and Practice Management

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 221 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 2025 - Community Dental Health II: Field Experience

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 225 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 2059 - Advanced Dental Hygiene Theory

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 259 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 2071 - Clinical Practice of Dental Hygiene III

Credit(s): 6
Clinic Hour(s): 12

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 271 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 2082 - Periodontics III

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 282 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 2085 - Clinical Theory of Dental Hygiene III

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 285 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.

Dental Hygiene, BAS

See list of Department Chairs on the Personnel page.

Career Opportunities

This program prepares the licensed dental hygienist to academically expand their knowledge and career opportunities in the professions of education, program administration, public health, research or sales.

Program Description

This Bachelor of Applied Science Degree Completion Program is designed for licensed dental hygienists who have completed an associate degree from a regionally accredited institution that is also accredited by the Commission on Dental Accreditation. The goal of the Registered Dental Hygienist (RDH) to BASDH program is to work with each student to enhance knowledge and provide expanded career opportunities. Obtaining a BAS degree may also provide the lifelong learner the knowledge base to prepare them academically should they wish to pursue a master's degree for additional career opportunities.

Program Requirements

Entrance Requirements:

Students must complete a current Dental Hygiene BAS program application and meet all minimum program requirements and application timelines. The application is available on the Dental Hygiene BAS website. Applicants should also seek advisement from the program director for assistance with meeting all admission requirements. In addition, students must meet the following admissions requirements:

1. Graduate from a regionally accredited dental hygiene program that is also accredited by the Commission on Dental Accreditation.
2. Pass the National Board Dental Hygiene Exam.
3. Hold a current dental hygiene license in a US state.

Total Credits: 27

General Education Requirements (3 Credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category.
GT-MA1

Curriculum Requirements (24 Credits)

First Fall Semester

HPR 4003 - Critical Review of Healthcare Research

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program

Formerly HPR 403 Covers the identification, evaluation, and analysis of scientific published literature necessary to identify healthcare best practices, the formulation of research for clinical questions for effective participation in healthcare discussions and evidence-based decision-making.

DEH 3001 - Advanced Careers in Dental Hygiene

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 301 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.

First Spring Semester

DEH 3041 - Clinical Teaching Methodologies

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 341 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 4055 - Topics in Dental Public Health

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 455 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.

Second Fall Semester

DEH 3055 - Social and Behavioral Determinants of Oral Health

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 355 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.

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

Second Spring Semester

DEH 4089 - Capstone: Dental Hygiene

Credit(s): 5
Seminar Hour(s): 5
Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 489 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.

Electives if Needed for Institutional Credit

- Any 300 or 400 level HPR BAS course

Miscellaneous Information

[1] Course taught in the first eight weeks of the semester

[2] Course taught in the second eight weeks of the semester

Early Childhood Director Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The ECE program prepares you for a career in teaching children (birth to age 5). The program can also prepare you to become an Early Childhood Teacher or director in the field of Early Childhood Education.

Program Description

This program prepares you to become a productive, caring and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive and physical development. Classes also focus on cultural diversity among children. You will become familiar with theories concerning child development and ECE, and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Program Requirements

Entrance Requirements:

You should demonstrate an interest in the care and well-being of young children. You must also be free from evidence of illness – mental and physical – and free from personal conduct which may be injurious to children as stated in the Colorado Rules and Regulations for Child Care Centers, section 7.702.51.

You must meet with an ECE faculty advisor before registering for ECE courses.

Note: Students interested in transferring to a baccalaureate program in Early Childhood Education or Elementary Education should refer to the Transfer Degree section.

Total Credits: 30

Certificate Requirements

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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 1045 - Introduction to Early Childhood Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 1031
Formerly ECE 102 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 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 2051 - Nutrition, Health and Safety

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 205 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 2621 - ECE Curriculum Development: Methods and Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 220 Explores planning and implementing effective early childhood curriculum for children, from birth through age eight years, including developmentally and culturally appropriate classroom environments, and written curriculum plans. The course also covers curricular content areas relevant to early childhood.

ECE 2381 - Ece Child Growth and Development

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 238 Provides an overview of growth, development, and learning of young children from birth through 12 years. The course includes the major theories of development as integrated in developmental domains and offers opportunities to practice effective research and assessment methods to gather child development information. This course also includes practical applications of child development knowledge to responsive teaching practices.

ECE 2401 - Administration of Early Childhood Care and Education Programs

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 240 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 2411 - Administration: Human Relations for Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011

Formerly ECE 241 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 2601 - The Exceptional Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 260 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.

Early Childhood Education, AAS

See list of Department Chairs on the Personnel page.

Program Description

This program prepares you to become a productive, caring, and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive, and physical development. Clsses also focus on culutral diversity among children. You will become familiar with theories concerning child development and ECE, and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Total Credits: 60

Degree Requirements

General Education Requirements (15 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

OR

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

OR

- Higher level MAT **Credit(s): 3**
- Any GT:AH course **Credit(s): 3**
- Any GT:SS course **Credit(s): 3**

Core Curriculum Requirements (39 Credits)

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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 1045 - Introduction to Early Childhood Techniques

Credit(s): 3
Lecture Hour(s): 1

Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 1031
Formerly ECE 102 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 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 2051 - Nutrition, Health and Safety

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 205 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 2621 - ECE Curriculum Development: Methods and Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 220 Explores planning and implementing effective early childhood curriculum for children, from birth through age eight years, including developmentally and culturally appropriate classroom environments, and written curriculum plans. The course also covers curricular content areas relevant to early childhood.

ECE 2631 - Language and Cognition for the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 225 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 2641 - Creativity and the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 226 Explores creative learning theories and evidence-based practices related to creative self-expression with young children. The course emphasizes the teacher's role in encouraging and supporting creativity and problem-solving skills. The course also addresses the use of developmentally appropriate curriculum planning to promote creative self-expression in all developmental domains for children ages birth through 8 years.

ECE 2381 - Ece Child Growth and Development

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 238 Provides an overview of growth, development, and learning of young children from birth through 12 years. The course includes the major theories of development as integrated in developmental domains and offers opportunities to practice effective research and assessment methods to gather child development information. This course also includes practical applications of child development knowledge to responsive teaching practices.

ECE 2401 - Administration of Early Childhood Care and Education Programs

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 240 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 2411 - Administration: Human Relations for Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 241 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 2601 - The Exceptional Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 260 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 2088 - Practicum: Early Childhood Education

Credit(s): 3
Lecture Hour(s): 1
Practicum Hour(s): 4
Prerequisite(s): ECE 1011 and ECE 1045
Formerly ECE 288 Provides students with advanced field experience opportunities in early childhood education programs.

Electives (6 Credits)

Select two courses:

ECE 2661 - Science/Math and the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 125 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 2101 - Working with Parents, Families, and Community Systems

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 256 Examines personal and professional dispositions and strategies impacting partnerships with diverse families, including perspectives that recognize diversity and promote equity in early care and education settings. The course covers theoretical perspectives of families and communities, communication strategies, and activities used to promote family partnerships, and explores community resources to support children and their families.

LIT 2055 - Children's Literature

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Placement at the Composition I level
Formerly LIT 255 Examines the criteria for selecting appropriate literature for children. Explores literature through a variety of genres, age levels, values taught through literature, and literary and artistic qualities of various texts. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT:AH2

Early Childhood Entry Level Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The ECE program prepares you for a career in teaching children (birth to age 5). The program can also prepare you to become an Early Childhood Teacher or director in the field of Early Childhood Education.

Program Description

This program prepares you to become a productive, caring and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive and physical development. Classes also focus on cultural diversity among children. You will become familiar with theories concerning child development and ECE, and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Program Requirements

Entrance Requirements:

You should demonstrate an interest in the care and well-being of young children. You must also be free from evidence of illness – mental and physical – and free from personal conduct which may be injurious to children as stated in the Colorado Rules and Regulations for Child Care Centers, section 7.702.51.

You must meet with an ECE faculty advisor before registering for ECE courses.

Note: Students interested in transferring to a baccalaureate program in Early Childhood Education or Elementary Education should refer to the Transfer Degree section.

Total Credits: 6

Certificate Requirements

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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.

or

ECE 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that

influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

Choose One Course Listed Below (3 Credits)

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 1125 - Intro to Infant/Toddler Lab Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1111 and ECE 1011
Formerly ECE 112 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 2661 - Science/Math and the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 125 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 2051 - Nutrition, Health and Safety

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 205 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 2621 - ECE Curriculum Development: Methods and Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 220 Explores planning and implementing effective early childhood curriculum for children, from birth through age eight years, including developmentally and culturally appropriate classroom environments, and written curriculum plans. The course also covers curricular content areas relevant to early childhood.

ECE 2631 - Language and Cognition for the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 225 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 2641 - Creativity and the Young Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 226 Explores creative learning theories and evidence-based practices related to creative self-expression with young children. The course emphasizes the teacher's role in encouraging and supporting creativity and problem-solving skills. The course also addresses the use of developmentally appropriate curriculum planning to promote creative self-expression in all developmental domains for children ages birth through 8 years.

ECE 2381 - Ece Child Growth and Development

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 238 Provides an overview of growth, development, and learning of young children from birth through 12 years. The course includes the major theories of development as integrated in developmental domains and offers opportunities to practice effective research and assessment methods to gather child development information. This course also includes practical applications of child development knowledge to responsive teaching practices.

ECE 2101 - Working with Parents, Families, and Community Systems

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 256 Examines personal and professional dispositions and strategies impacting partnerships with diverse families, including perspectives that recognize diversity and promote equity in early care and education settings. The course covers theoretical perspectives of families and communities, communication strategies, and activities used to promote family partnerships, and explores community resources to support children and their families.

or

ECE 2601 - The Exceptional Child

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 260 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.

Early Childhood Teacher Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The ECE program prepares you for a career in teaching children (birth to age 5). The program can also prepare you to become an Early Childhood Teacher or director in the field of Early Childhood Education.

Program Description

This program prepares you to become a productive, caring and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive and physical development. Classes also focus on cultural diversity among children. You will become familiar with theories concerning child development and ECE, and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Program Requirements

Entrance Requirements:

You should demonstrate an interest in the care and well-being of young children. You must also be free from evidence of illness – mental and physical – and free from personal conduct which may be injurious to children as stated in the Colorado Rules and Regulations for Child Care Centers, section 7.702.51.

You must meet with an ECE faculty advisor before registering for ECE courses.

Note: Students interested in transferring to a baccalaureate program in Early Childhood Education or Elementary Education should refer to the Transfer Degree section.

Total Credits: 18

Certificate Requirements

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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 1045 - Introduction to Early Childhood Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 1031
Formerly ECE 102 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 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 2621 - ECE Curriculum Development: Methods and Techniques

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011 and ECE 2381
Formerly ECE 220 Explores planning and implementing effective early childhood curriculum for children, from birth through age eight years, including developmentally and culturally appropriate classroom environments, and written curriculum plans. The course also covers curricular content areas relevant to early childhood.

ECE 2381 - Ece Child Growth and Development

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 238 Provides an overview of growth, development, and learning of young children from birth through 12 years. The course includes the major theories of development as integrated in developmental domains and offers opportunities to practice effective research and assessment methods to gather child development information. This course also includes practical applications of child development knowledge to responsive teaching practices.

Early Childhood Teacher Education, AA (with Designation)

See list of Department Chairs on the Personnel page.

Total Credits: 60

General Education Requirements: 35

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1220 - Integrated Math I: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 155 Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include the structure of number systems, an analysis of numerical operations, set properties, numerical and geometric patterns, and a variety of problem solving skills. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1230 - Integrated Math II: MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 156 Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include probability, statistics, measurement, Euclidean geometry, and algebraic methods. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

LIT 2055 - Children's Literature

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Placement at the Composition I level
Formerly LIT 255 Examines the criteria for selecting appropriate literature for children. Explores literature through a variety of genres, age levels, values taught through literature, and literary and artistic qualities of various texts. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT:AH2

- Any GT-AH2 course **Credit(s): 3**

GEO 1005 - World Regional Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 105 Examines the spatial distribution of environmental and societal phenomena in the world's regions. Environmental phenomena includes topography, climate, and natural resources. Societal phenomena includes patterns of population and settlement, religion, ethnicity, language, and economic development. This course also analyzes the characteristics that define world regions and distinguishes them from each other. This course examines the relationships between physical environments and human societies, and examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

OR

GEO 1006 - Human Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 106 Introduces geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. This course examines the relationships between physical environments and human societies. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and

national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

OR

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Core Curriculum Requirements: 25

ART 1110 - Art Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 110 Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

OR

MUS 1020 - Music Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 120 Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western, and non-Western historical style periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

OR

THE 1005 - Theatre Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 105 Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience:

scripts, acting, directing, staging, history, criticism, and theory. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

PSY 2442 - Child and Adolescent Psychology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 237 Explores human development from conception through adolescence, emphasizing physical cognitive, emotional, and psychosocial factors.

EDU 2211 - Introduction to Education

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College readiness in English
Formerly EDU 221 Focuses on the historical, social, political, philosophical, cultural, and economic forces that shape the United States public school system. This course includes current issues of education reform, technology as it relates to education, and considerations related to becoming a teacher in the state of Colorado. The course addresses the educational theory and practices from Early Childhood Education (ECE) through secondary education.

EDU 2341 - Multicultural Education

Credit(s): 3
Lecture Hour(s): 3
Formerly EDU 234 Explores racial, ethnic, cultural, and socioeconomic groups to gain an understanding of equity, diversity, and inclusion in communities and education. This course provides opportunities to contextualize multicultural perspectives in society and their impact on the education system.

EDU 2611 - Teaching, Learning and Technology

Credit(s): 3
Lecture Hour(s): 3
Formerly EDU 261 Explores integration of technology instruction into teaching practices used in preschool through postsecondary (P-21) educational settings for all curriculum areas of content. This course reviews a variety of technologies with an emphasis on increasing student learning and retention of knowledge. The course also explores combining technology with several instructional methodologies to promote professional teacher dispositions related to technology-rich teaching.

EDU 2088 - Practicum II

Credit(s): 0-12
Lecture Hour(s): 0-12
Formerly EDU 288 Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the education facility and with the direct guidance of the instructor.

- Must meet with academic advisor; courses are determined by transfer institution. **Credit(s): 9**

Economics, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Economics prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a bachelor's degree in economics. Bachelor degree curriculums allow students to prepare for graduate school, for teaching careers, or for employment in areas that require economic analysis, such as actuarial science, investment banking, finance or statistics. Students would also be prepared to work in commercial banks, finance companies and insurance companies.

Program Description

The Associate of Arts Degree with Designation in Economics is designed for students who want to transfer to a four-year college or university to pursue a baccalaureate degree in economics. Completion of the AA degree completes the first two years of an economics bachelor's degree and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in economics.

Program Requirements

In addition to the requirements listed below, you must:

1. Earn a minimum of 60 semester hours of course work
2. Earn a minimum of 15 graded semester hours at PCC
3. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC business advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with Designation in Economics, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (37 Credits)

(Written) Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative,

and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1 **or** GT-SC2), one must be a laboratory (GT-SC1) *

Arts and Humanities (9 Credits)

(Select three courses from any category):

- GT-AH1, GT-AH2, GT-AH3, GT-AH4 *

Social and Behavioral Sciences (6 Credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Courses (3 Credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Electives (20 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.S. Business Administration; Economics emphasis)
- Colorado State University-Fort Collins (B.A. Economics)
- Fort Lewis College – (B.A. Economics; Economics option)
- Metropolitan State University of Denver (B.A. Economics)
- University of Colorado, Boulder (B.A. Economics)
- University of Colorado, Colorado Springs (B.A. Economics)
- University of Colorado, Denver (B.A. Economics)
- University of Northern Colorado (B.A. Economics)
- Western State Colorado University (B.A. Economics)

Electromechanical Technology Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The AAS degree in Industrial Electronics Technology prepares you for a career as an electronics technician, an electromechanical technician, a semiconductor manufacturing technician or an electromechanical field service technician.

Program Description

This program develops essential skills for maintaining the complex electromechanical systems found in modern automated manufacturing facilities. After completing a core of courses in math, physics, fundamental analog and digital electronics, robotics and programmable logic controllers, you will branch off into one of two optional tracks. The electromechanical option emphasizes a broader range of skills, including print reading, motors and controls, and mechanical components. In addition to the two AAS degree options, several certificate options are also available.

Program Requirements

Entrance Requirements:

You should have good basic reading, language and math competencies. High school algebra and physics are recommended but not required. Refresher classes are available.

Total Credits: 29

Certificate Requirements

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

ELT 2252 - Motors and Controls

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 252 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 2357 - Sensors and Transducers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 257 Enables the student to study, construct, test and evaluate methods of testing and controlling common industrial processes. Includes sensing systems, transducers, measurement techniques, systems interfacing, process control and data acquisition.

ELT 2358 - Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): (ELT 1206 or EIC 1201) AND ELT 2252
Formerly ELT 258 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 2089 - Capstone: Automated Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 289 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.

MAC 2056 - Industrial Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 256 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation, and maintenance of plant equipment. It includes safety, fit, threads, bearings, fasteners, hardware, lubricants, and assembly.

MTE 2320 - Fluid Power Control

Credit(s): 3
Lecture Hour(s): 1

Vocational Lab Hour(s): 3
Prerequisite(s): MTE 1102 or Corequisite below
Corequisite(s): MAT 1140 or higher
Formerly MTE 238 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.

WEL 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

or

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

Electromechanical Technology, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The AAS degree in Industrial Electronics Technology prepares you for a career as an electronics technician, an electromechanical technician, a semiconductor manufacturing technician or an electromechanical field service technician.

Program Description

This program develops essential skills for maintaining the complex electromechanical systems found in modern automated manufacturing facilities. After completing a core of courses in math, physics, fundamental analog and digital electronics, robotics and programmable logic controllers, you will branch off into one of two optional tracks. The electromechanical option emphasizes a broader range of skills, including print reading, motors and controls, and mechanical components. In addition to the two AAS degree options, several certificate options are also available.

Program Requirements

Entrance Requirements:

You should have good basic reading, language and math competencies. High school algebra and physics are recommended but not required. Refresher classes are available.

Total Credits: 64

Degree Requirements

General Education Requirements (15 Credits)

CIS 1010 - Intro to Computing Technology (Device)

Credit(s): 1
Vocational Lab Hour(s): 1
Formerly CIS 110 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.

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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.

or

- Any 1 credit hour COM class offered in the fall semester

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

or

- Any Social/Behavior Science-Arts/Humanities Course

Common Core Requirements (46 Credits)

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

ELT 2252 - Motors and Controls

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 252 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 2254 - Industrial Wiring

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 254 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 2357 - Sensors and Transducers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 257 Enables the student to study, construct, test and evaluate methods of testing and controlling common industrial processes. Includes sensing systems, transducers, measurement techniques, systems interfacing, process control and data acquisition.

ELT 2358 - Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): (ELT 1206 or EIC 1201) AND ELT 2252
Formerly ELT 258 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 2359 - Advanced Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 2358
Formerly ELT 259 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 2080 - Internship

Credit(s): 1-12
Internship Hour(s): 3-36
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 280 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 2089 - Capstone: Automated Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 289 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.

MAC 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 2056 - Industrial Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 256 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation, and maintenance of plant equipment. It includes safety, fit, threads, bearings, fasteners, hardware, lubricants, and assembly.

MAC 2065 - Mechanical Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 265 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation and maintenance of plant equipment. It includes keys, keyways, belts, chains and drives, gears and drives, seals, shafts, and coupling alignment.

MTE 1102 - Safety Manufacturing Environment

Credit(s): 1
Lecture Hour(s): 1
Formerly MTE 105 Introduces Occupational Safety and Health Administration (OSHA) federal and state regulations, industrial practices, and accident investigation techniques; including topics such as hazard communication standards, lockout/tagout procedures, eye safety, lifting techniques, electrical safety, stored energy safety, Personal Protective Equipment (PPE), and safety program development and monitoring.

MTE 2320 - Fluid Power Control

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): MTE 1102 or Corequisite below
Corequisite(s): MAT 1140 or higher
Formerly MTE 238 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.

WEL 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

or

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

Electives (3 Credits)

(Select one class)

CAD 1101 - Computer Aided Drafting/2D I

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 101 Focuses on basic computer aided drafting skills using the AutoCAD software. Includes file management, Cartesian coordinate system & dynamic input, drawing templates, drawing aids, linetype and lineweights, layer usage, drawing & editing geometric objects, polylines & splines, array, text applications, creating tables, basic dimensioning and Help access.

CIS 2020 - Fundamentals of Unix

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 220 Explores the structure and fundamentals of the Unix operating system including the file system and file processing, various utility programs, shell, multi-user operation, text processing, and communications.

CNG 1021 - Computer Technician I: A+

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly CNG 121 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 1022 - Computer Technician II: A+

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): CNG 1021 Corequisite: CNG 1021
Formerly CNG 122 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 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

WEL 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

Elementary Teacher Education, AA (with Transfer Articulation Agreement)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts degree with an emphasis in Elementary Education prepares you to transfer as a junior to a four-year institution in Colorado in order to become an elementary teacher.

Program Description

This program introduces you to the field of education. The course work comprises general education requirements common to all Colorado two- and four-year institutions. It also meets appropriate Colorado Model Content standards for elementary education. Upon transfer, if you have earned the AA degree with an emphasis in Elementary Education, you will be ready to apply for admission to a four-year institution's teacher education program.

Before beginning to take classes, you must meet with PCC's teacher education faculty advisor to plan a course of study and to examine the list of approved credits for each four-year institution in Colorado.

Students interested in majoring in education need to identify the four-year college/university to which they plan to transfer. Each individual institution requires different curriculum electives for graduation.

There are no current statewide articulation agreements in secondary or K-12 education, but students can still effectively pursue these options at PCC.

Emphasis in Elementary Education (Grades K-6)

If you want to teach grades K through 6, you may pursue an Associate of Arts degree with Elementary Education emphasis.

Emphasis in Secondary Education (Grades 7-12)

If you want to teach grades 7 through 12, you should identify the four-year college or university to which you intend to transfer and the appropriate curriculum. You may pursue an Associate of Arts degree with Secondary Education emphasis in one of the following licensure areas:

- English
- Math
- Science
- Social Science (History/Political Science)
- Spanish

Emphasis in K-12 Education

If you would like to teach in the K-12 content areas of art, music or physical education, you should pursue an Associate of Arts degree at PCC. Your advisor will help you select the electives that will be required for your bachelor's degree.

Total Credits: 60

General Education Core Requirements (32 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (6 Credits)

MAT 1220 - Integrated Math I: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 155 Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include the structure of number systems, an analysis of numerical operations, set properties, numerical and geometric patterns, and a variety of problem solving skills. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1230 - Integrated Math II: MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 156 Engages students in the concepts underlying elementary level mathematics. The course emphasizes critical thinking and applications. Topics include probability, statistics, measurement, Euclidean geometry, and algebraic methods. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (8 Credits)

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (3 Credits)

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021.
Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

or

LIT 2001 - World Literature to 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 201 Examines significant writings in world literature from the ancients to the seventeenth century. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

or

LIT 2002 - World Literature After 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 202 Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

or

LIT 2011 - American Literature to Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 211 Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

Social and Behavioral Sciences (6 Credits)

GEO 1005 - World Regional Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 105 Examines the spatial distribution of environmental and societal phenomena in the world's regions. Environmental phenomena includes topography, climate, and natural resources. Societal phenomena includes patterns of population and settlement, religion, ethnicity, language, and economic development. This course also analyzes the characteristics that define world regions and distinguishes them from each other. This course examines the relationships between physical environments and human societies, and examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

History (3 Credits)

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Education Requirements (9 Credits)

Please note: If these credits are not required for the major at a receiving 4-year institution, they will be applied to the bachelor's degree as elective credits towards graduation. Please check with the receiving institution to determine in which way these courses will be applied.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

EDU 2211 - Introduction to Education

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College readiness in English
Formerly EDU 221 Focuses on the historical, social, political, philosophical, cultural, and economic forces that shape the United States public school system. This course includes current issues of education reform, technology as it relates to education, and considerations related to becoming a teacher in the state of Colorado. The course addresses the educational theory and practices from Early Childhood Education (ECE) through secondary education.

PSY 2441 - Child Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 238 Focuses on the growth and development of the individual, from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

Other Required Courses (19 Credits)

Determined by transferring institution.

Students must meet with an academic advisor to determine which specific other courses are required pertaining to their emphasis area and transfer institution.

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:Adams State University (B.A. Interdisciplinary Studies)

- Colorado Mesa University (B.A. Liberal Arts)
- Colorado Mountain College (B.A. Interdisciplinary Studies)
- Colorado State University-Pueblo (B.S. Liberal Studies)
- Fort Lewis College (B.A. Elementary Education)
- Metropolitan State University of Denver (B.A. Human Development, B.A. Elementary Education)
- University of Colorado, Boulder (B.A. Elementary Education)
- University of Colorado, Colorado Springs (B.A. Inclusive Elementary Education, B.A. Biology, B.A. English Literature, B.A. Geography and Environmental Studies, B.A. History, or B.A. Spanish)
- University of Colorado, Denver (B.A., Elementary Education emphasis; B.A. Education and Human Development – Elementary Education)
- University of Northern Colorado (B.A. Elementary Education)
- Western State Colorado University (B.A. Elementary Education, CLD emphasis)

Emergency Medical Services, AAS

Career Opportunities

See list of Department Chairs on the Personnel page.

The EMS program prepares you for a career in the pre-hospital health care field as an emergency medical care provider at the EMT, EMT-Intermediate or Paramedic level. Career opportunities include providing patient care while working for an ambulance agency, fire service or hospital emergency room. Additional opportunities are in such areas as tactical EMS, critical care transport and ski patrol. If you graduate with an AAS degree you have additional opportunities in administration and management in the pre-hospital field.

Program Description

This program teaches you the knowledge and skills needed for scene management, emergency patient care and transport. This includes scene safety, patient assessment and treatment, medication administration, documentation and patient transport. Upon successful completion of the program, you may take the National Registry exam and, upon passing the exam, you may apply for Colorado State Certification at your level of training.

Program Requirements

Entrance Requirements:

To enroll in the EMT, EMT-Intermediate or Paramedic programs, you must be at least 18 years of age, have all current immunizations and be able to meet the requirements of the PCC EMS Common Functional Abilities Standard. For enrollment into the EMT-Intermediate or Paramedic programs, you must have a current Colorado EMT certification, an EMT IV endorsement, successfully complete all prescreening examinations and prerequisites, and obtain department approval for enrollment into these programs.

The EMS Department is offering an EMT-Intermediate to Paramedic Bridge course for those who are EMT-Intermediates. To qualify for this program you must be an EMT-I99, be eligible for state certification, and pass an EMT-I prescreening exam or be nationally registered as an EMT-I99. For more information on prerequisites and classes, please call the EMS Department.

Note: Clinical agencies used during the program require that you successfully complete a background check and a drug screen, immunization series and CPR training. Please check with a program advisor for any changes to admission requirements.

Total Credits: 69

Semester One

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4

Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Semester Two

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

or

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Semester Three

EMS 2025 - Fundamentals of Paramedic Practice

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): BIO 1006 or BIO 2102
Formerly EMS 225 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 2026 - Fundamentals of Paramedic Practice - Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 226 Teaches the skills necessary for the paramedic to apply professional behavior, medical ethics, legal issues, patient assessment, therapeutic communication, clinical decision making, and airway management. Serves as the companion course to Fundamentals of Paramedic Practice.

EMS 2029 - Paramedic Pharmacology

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 2025
Formerly EMS 229 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 2030 - Paramedic Pharmacology Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 230 Teaches the skills necessary for the paramedic to safely and effectively administer emergency medications. Serves as the companion course to Paramedic Pharmacology.

EMS 2033 - Paramedic Medical Emergencies

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): EMS 2025
Formerly EMS 233 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 2034 - Paramedic Medical Emergencies Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 234 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.

Semester Four

EMS 2027 - Paramedic Special Considerations

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): EMS 2025
Formerly EMS 227 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 2028 - Paramedic Special Considerations Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 228 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 2031 - Paramedic Cardiology

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): EMS 2025
Formerly EMS 231 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 2032 - Paramedic Cardiology Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 232 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 2036 - Paramedic Trauma Emergencies Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 236 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 2037 - Paramedic Internship Preparatory

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 2025
Formerly EMS 237 Reviews concepts and techniques used in the prehospital setting.

Semester Five

EMS 2080 - Paramedic Internship I

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): EMS 2025
Formerly EMS 280 Serves as the preceptor/internship program for paramedic students.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Semester Six

EMS 2081 - Paramedic Internship II

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): EMS 2025
Formerly EMS 281 Serves as the continuation of EMS 280, preceptor program for paramedic students.

Emergency Medical Technician Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The EMS program prepares you for a career in the pre-hospital health care field as an emergency medical care provider at the EMT, EMT-Intermediate or Paramedic level. Career opportunities include providing patient care while working for an ambulance agency, fire service or hospital emergency room. Additional opportunities are in such areas as tactical EMS, critical care transport and ski patrol. If you graduate with an AAS degree you have additional opportunities in administration and management in the pre-hospital field.

Program Description

This program teaches you the knowledge and skills needed for scene management, emergency patient care and transport. This includes scene safety, patient assessment and treatment, medication administration, documentation and patient transport. Upon successful completion of the program, you may take the National Registry exam and, upon passing the exam, you may apply for Colorado State Certification at your level of training.

Program Requirements

Entrance Requirements:

To enroll in the EMT, EMT-Intermediate or Paramedic programs, you must be at least 18 years of age, have all current immunizations and be able to meet the requirements of the PCC EMS Common Functional Abilities Standard. For enrollment into the EMT-Intermediate or Paramedic programs, you must have a current Colorado EMT certification, an EMT IV endorsement, successfully complete all prescreening examinations and prerequisites, and obtain department approval for enrollment into these programs.

The EMS Department is offering an EMT-Intermediate to Paramedic Bridge course for those who are EMT-Intermediates. To qualify for this program you must be an EMT-I99, be eligible for state certification, and pass an EMT-I prescreening exam or be nationally registered as an EMT-I99. For more information on prerequisites and classes, please call the EMS Department.

Note: Clinical agencies used during the program require that you successfully complete a background check and a drug screen, immunization series and CPR training. Please check with a program advisor for any changes to admission requirements.

Total Credits: 11-12

Emergency Medical Technician

Total Credits: 12

Certificate Requirements

EMS 1021 - EMT Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly EMS 121 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 1022 - EMT Medical Emergencies

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 122 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 1023 - EMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 123 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 1024 - EMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 124 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 1070 - EMT Clinical

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly EMS 170 Provides the EMT student with the clinical experience required for initial certification and some renewal processes.

Advanced Emergency Medical Technician

Total Credits: 11

Certificate Requirements

EMS 1127 - AEMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 1125
Formerly EMS 127 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 1125 - AEMT Fundamentals

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): College readiness in English
Formerly EMS 131 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 1133 - AEMT Medical Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 133 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 1135 - AEMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 135 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 1071 - AEMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): EMS 1125
Formerly EMS 171 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.

EMT Enhanced Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The EMS program prepares you for a career in the pre-hospital health care field as an emergency medical care provider at the EMT, EMT-Intermediate or Paramedic level. Career opportunities include providing patient care while working for an ambulance agency, fire service or hospital emergency room. Additional opportunities are in such areas as tactical EMS, critical care transport and ski patrol. If you graduate with an AAS degree you have additional opportunities in administration and management in the pre-hospital field.

Program Requirements

Entrance Requirements:

To enroll in all EMS programs, you msut be at least 18 years of age, have all current immunizations, pass a background check and a drug screen and be able to meet the requirements of the Functional EMS Job Description.

Total Credits: 18

Prerequisite Courses for Program Admission Credits: 18

Student must have a current Health Care Professional CPR card, successful completions of CCR 092, qualfiying assessment scores

Certificate Requirements

First Semester (12 credits)

EMS 1021 - EMT Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly EMS 121 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 1022 - EMT Medical Emergencies

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 122 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 1023 - EMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 123 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 1024 - EMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s)/Corequisite(s): EMS 1021
Formerly EMS 124 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 1070 - EMT Clinical

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly EMS 170 Provides the EMT student with the clinical experience required for initial certification and some renewal processes.

Second Semester (6 credits)

HPR 1050 - Basic EKG Interpretation

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): EMT cert or higher, or department chair approval
Formerly HPR 190 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.

EMS 1132 - EMS Intravenous / Intraosseous Therapy

Credit(s): 2
Lecture Hour(s): .25
Vocational Lab Hour(s): 1.9
Clinic Hour(s): 1

Prerequisite(s): Current Colorado Certification as EMT or Department Chair Approval
Formerly EMS 132 Focuses on cognitive and skill practice for the Colorado scope of practice for the IV / IO endorsement as outlined in the Intravenous / Intraosseous Therapy and Medication Administration course curriculum.

EMS 1080 - EMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Formerly EMS 180 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.

Engine and Electrical Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 16

Certificate Requirements

ASE 1020 - Basic Auto Electricity

Credit(s): 2
Lecture Hour(s): 1.5
Vocational Lab Hour(s): 0.75
Formerly ASE 120 Introduces vehicle electricity, basic electrical theory, circuit designs, and wiring methods. This course focuses on multimeter usage and wiring diagrams. This course meets MLR/AST/MAST requirements.

ASE 1023 - Starting and Charging System

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 123 Covers the operation and theory of a vehicle battery, testing, service, and repair of starting and charging systems including voltage testing, draw testing. This course meets MLR/AST/MAST program requirements.

ASE 1030 - General Engine Diagnosis

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 130 Covers how to perform basic engine diagnosis to determine condition of engine including engine support systems. This course meets MLR/AST/MAST requirements.

ASE 1032 - Ignition System Diagnosis and Repair

Credit(s): 2
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 0.75
Formerly ASE 132 Focuses on lecture and related laboratory experiences in the diagnosis, service, adjustments and repair of various automotive ignition systems.

ASE 1061 - Automotive Engine Repair & Rebuild

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly ASE 161 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 1062 - Automotive Engine Service & Repair

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 162 Covers engine sealing requirements and repair procedures including engine fasteners, bolt torque, repair of fasteners, cooling system, and basic engine maintenance. This course meets AST/MAST requirements.

ASE 2060 - Advanced Engine Diagnosis

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 260 Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors related to customer vehicles.

ASE 2182 - Internship: General (Summer)

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 282 Emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student takes all related sponsor requirements in (STS) Service Training Standards (General Motors) or ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

English, Literature Emphasis, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in English prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) degree in English. Students who opt for the Bachelor of Arts in English can choose to work in a wide variety of occupational fields including teaching, journalism, law, publishing, medicine and the fine arts. Once a BA is completed, students may pursue a higher or graduate degree in English, if interested.

Program Description

This program introduces the student to the discipline of English and includes the course work to meet general education requirements that are common to all Colorado four-year institutions. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in English will be ready to complete the last half of a BA in English at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (34 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and**

ENG 2001 - Composition III: Writing for Public Discourse GT-CO3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1022
Formerly ENG 201 Provides the skills necessary to enter into higher-level undergraduate academic discourse or professional workplace writing. This course extends rhetorical knowledge and develops critical reading, thinking, and writing strategies in multiple specialized areas of discourse beyond what is encountered in previous composition courses. This is a statewide Guaranteed Transfer course in the GT-CO3 category. GT-CO3

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GT- MA1) *, prefer MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Natural and Physical Sciences (7 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1) *. At least one of these courses must include a laboratory component (GT-SC1) *.

Arts and Humanities (9 Credits)

Note: Courses from the Literature and Humanities category (GT-AH2) may **not** be used to meet this requirement.

- Select three GT Pathways Arts and Humanities courses

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Courses (18 Credits)

Verbal Communication (3 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Select five GT Pathways Arts and Humanities Literature (LIT) courses within the GT-AH2 category (15 Credits)

Note: Students are required to take a total of five (5) LIT courses (15 credits), four (4) of which must be at the 200-level. Please consult with your receiving institution regarding best choices for literature courses.

Electives (8 Credits)

Determined by transferring institution.

Recommended elective:

ENG 2021 - Creative Writing I

Credit(s): 3
Lecture Hour(s): 3
Formerly ENG 221 Examines techniques for creative writing by exploring imaginative uses of language through creative genres (fiction, poetry, and other types of creative production such as drama, screenplays, graphic narrative, or creative nonfiction) with emphasis on the student's own unique style, subject matter and needs. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.A. English, Liberal Arts emphasis)
- Colorado Mesa University (B.A. English, Literature concentration)
- Colorado State University-Fort Collins (B.A. English)
- Colorado State University-Pueblo (B.A. English)
- Ft. Lewis College (B.A. English, General Option)
- Metropolitan State University of Denver (B.A. English)
- University of Colorado, Boulder (B.A. English)
- University of Colorado, Colorado Springs (B.A. English)
- University of Colorado, Denver (B.A. English, Literature emphasis)
- University of Northern Colorado (B.A. English, Liberal Arts emphasis)
- Western State Colorado University (B.A. English)

Esthetician Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Cosmetology program prepares students for careers in cosmetology, hairstyling, esthetics (facial care) and manicure (nail care). Students will receive the specialized training necessary to be prepared for a successful career with limitless opportunities for both men and women. Students learn the skills to keep pace with the fashion world and stand ready to meet the constantly changing demands of one of today's largest-growing service industries. Those opportunities can provide both part-time and full-time employment in specialty areas.

Program Description

The Cosmetology program teaches students job entry skills, customer communication and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

- Esthetician certificate – This certificate program provides training in facial care.

Total Credits: 20

Certificate Requirements

Core Requirements (20 Credits)

COS 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

EST 1001 - Steril/Sani & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly EST 101 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 1060 - Introduction to Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly EST 160 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 1061 - Intermediate Disinfection, Sanitation & Safety

Credit(s): 3
Clinic Hour(s): 6

Formerly EST 161 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 1010 - Introduction to Skin Care

Credit(s): 3
Clinic Hour(s): 6

Formerly EST 110 This course covers the study of skin in both theory and practical applications for skin care professionals. Topics included in the course are: skin structure and function, massage manipulations while providing facials and the benefits derived from a proper facial, and good skin care routines. Training is conducted in a classroom or lab setting using manikins or models.

EST 1011 - Intermediate Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1010.
Formerly EST 111 This course covers skin care and practical application pertaining to anatomy, skin disorders, skin types and facial shapes. Students will help patrons to select the proper skin care treatment(s). Practical and theory application can be done in specialized classes or supervised salon setting using models or customer service.

EST 2010 - Advanced Skin Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): EST 1011.
Formerly EST 210 This course covers advanced techniques for massage, skin care, and lash/brow tinting. Theory and practical procedures ready the student for employment and preparation for State Board Licensing Examination. Instruction is provided in specialized classes or in a supervised salon setting.

EST 2011 - Make-up for Skin Care Professionals

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): EST 1010.
Formerly EST 211 This course covers cosmetics and their functions for the skin care professional, including the importance of color theory, facial types and skin tones as they relate to facial makeup. Topics in this course include: Instruction from the basic makeup application, corrective makeup procedures, and disinfection and sanitation pertaining to all aspects of makeup.

EST 2012 - Hair Removal

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): EST 1010.
Formerly EST 212 This course covers 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.

Fire Sci Structure Academy

Program Description

See list of Department Chairs on the Personnel page.

The Fire Science Technology is an Associate of Applied Science (AAS) degree designed to meet the needs of fire protection and safety personnel. The program will prepare you for a career in fire science or a related field. Courses are offered through traditional classroom instruction, independent study, and hands on training in conjunction with local fire departments.

Career Information

The Fire Science Technology program prepares students for entry level positions in the fire service industry.

Total Credits: Variable

Basic Fire Science (9 credits)

FST 1002 - Principles/Emergency Services

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 102 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 1003 - Fire Behavior & Combustion

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 103 Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FST 1009 - Occupational Safety & Health

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 109 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.

Fire Investigator I (9 credits)

FST 1003 - Fire Behavior & Combustion

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 103 Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FST 2005 - Fire Investigation I

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 205 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 2052 - Fire Investigation II

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 252 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.

Firefighter I (12 credits)

FST 1000 - Firefighter I

Credit(s): 9
Lecture Hour(s): 6
Vocational Lab Hour(s): 4.50
Formerly FST 100 Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard.

FST 1007 - Hazardous Materials Operations (Level I)

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 107 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.

Vehicle Extrication (3 credits)

FST 1026 - Vehicle Extrication Awareness Level

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly FST 126 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 1027 - Vehicle Extrication Operations Level

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly FST 127 Expands and refines the objectives of FST 1026. 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.

Fire Officer I (12 credits)

FST 2001 - Instructional Methodology

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 201 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 2006 - Fire Co Superv and Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 206 Addresses the requisite knowledge and skills required to perform at level 1 as identified in National Fire Protection Association (NFPA) 1021, Fire Officer Professional Qualifications. Areas of focus include: fire department organization, company officer traits, roles and responsibilities, communications practices, administrative functions, safety, health and wellness, training, fire prevention, human resources management, and incident management and operations. The course prepares the learner for the Colorado Fire Officer I State Exams and JPR evaluations.

FST 2053 - NIMS

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FST 2002.
Formerly FST 253 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 2055 - Fire Service Management

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 255 Serves as the basic management course for present and potential members of the fire and emergency service professions. The course introduces the student to current fire service management practices, challenges, and real-world applications from the fire officers point of view. The course addresses decision-making, problem solving, necessary communication skills, conflict resolution, effective leadership skills, as well as the role of the fire service manager in supervising personnel and programs.

Basic Firefighter - Structural (Fire Academy) (16 credits)

FST 1008 - Firefighter Professional Preparation

Credit(s): 1
Lecture Hour(s): 1
Formerly FST 108 Articulates strategies for creating success in a career as a Firefighter. This course discusses requirements in professionalism, emergency response in a multicultural environment, the psychological rigors and stressors typical of the vocation, and use of potential resources to attain career goals and plans.

FST 1000 - Firefighter I

Credit(s): 9
Lecture Hour(s): 6
Vocational Lab Hour(s): 4.50
Formerly FST 100 Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard.

FST 1007 - Hazardous Materials Operations (Level I)

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 107 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 1060 - Candidate Physical Abilities Test Prep

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly FST 160 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.

Fire Prevention & Public Education (14 credits)

FST 1006 - Fire Prevention

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 106 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 1050 - Introduction to Fire Prevention Education

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 150 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 2004 - Principles of Code Enforcement

Credit(s): 3
Lecture Hour(s): 3

Formerly FST 204 Provides the students with the fundamental knowledge of the role of code enforcement in a comprehensive fire prevention program.

FST 2008 - Fire Plans Review and Acceptance Testing

Credit(s): 2
Lecture Hour(s): 2
Formerly FST 208 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 2009 - Fire Protection Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 209 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.

Fire Sci: Prevention/Edu

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course.

Total Credits: 14

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1006 - Fire Prevention

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 106 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 1050 - Introduction to Fire Prevention Education

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 150 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 2004 - Principles of Code Enforcement

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 204 Provides the students with the fundamental knowledge of the role of code enforcement in a comprehensive fire prevention program.

FST 2008 - Fire Plans Review and Acceptance Testing

Credit(s): 2
Lecture Hour(s): 2
Formerly FST 208 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 2009 - Fire Protection Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 209 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.

Fire Sci: Struct Investigator

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course

Total Credits: 9

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 2005 - Fire Investigation I

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 205 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 2051 - Legal Aspects of Fire Service

Credit(s): 3
Lecture Hour(s): 3

Formerly FST 251 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 2052 - Fire Investigation II

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 252 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.

Fire Sci: Vehicl Extraction

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course.

Total Credits: 3

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1026 - Vehicle Extrication Awareness Level

Credit(s): 1
Vocational Lab Hour(s): 1.50
Formerly FST 126 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 1027 - Vehicle Extrication Operations Level

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly FST 127 Expands and refines the objectives of FST 1026. 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.

Fire Science Technology AAS

See list of Department Chairs on the Personnel page.

Program Description

The Fire Science Technology is an Associate of Applied Science (AAS) degree designed to meet the needs of fire protection and safety personnel. The program will prepare you for a career in fire science or a related field. Courses are offered through traditional classroom instruction, online, independent study, and hands on training.

Career Information.

The Fire Science Technology program prepares students for entry level positions in the fire service industry. Students **are not** required to take EMT courses as a prerequisites to the Fire Science AAS degree.

Total Credits: 66

First (18 credits)

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success. Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

FST 1002 - Principles/Emergency Services

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 102 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 1003 - Fire Behavior & Combustion

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 103 Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FST 1009 - Occupational Safety & Health

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 109 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.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

- Any FST, FSW, EMS **Credit(s): 3**

Second (18 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative,

and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

FST 1005 - Building Construction for Fire Protection

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 105 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 1006 - Fire Prevention

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 106 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 2009 - Fire Protection Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 209 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.

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

OR

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

OR

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

OR

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Third (15 credits)

MAN 2024 - Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 224 Focuses on the leadership skills for contemporary organizations. Covers development and communication a shared vision to motivate and empower employees to manage conflict, to negotiate, and to develop teams.

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and

national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

OR

PSC 1025 - American State and Local Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 125 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 is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

FST 2002 - Strategy and Tactics

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 202 Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment, and extinguishing agents on the fire ground.

FST 2001 - Instructional Methodology

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 201 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.

- Any FST, FSW, or EMS **Credit(s): 3**

Fourth (15 credits)

FST 2006 - Fire Co Superv and Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 206 Addresses the requisite knowledge and skills required to perform at level 1 as identified in National Fire Protection Association (NFPA) 1021, Fire Officer Professional Qualifications. Areas of focus include: fire department organization, company officer traits, roles and responsibilities, communications practices, administrative functions, safety, health and wellness, training, fire prevention, human resources management, and incident management and operations. The course prepares the learner for the Colorado Fire Officer I State Exams and JPR evaluations.

FST 2004 - Principles of Code Enforcement

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 204 Provides the students with the fundamental knowledge of the role of code enforcement in a comprehensive fire prevention program.

FST 2057 - Fire Department Administration

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 257 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.

- Any FST, FSW, or EMS **Credit(s): 6**[1]

1 Technical Skills Electives -- Student may choose 12 credits any FST, FSW, or EMS courses for Technical Elective courses to complete the AAS degree.

2 Course is offered spring semester only

3 Course is offered fall semester only

Fire Science: Basic

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course

Total Credits: 9

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1002 - Principles/Emergency Services

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 102 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 1003 - Fire Behavior & Combustion

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 103 Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FST 1009 - Occupational Safety & Health

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 109 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.

Fire Science: Fire Fighter I

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course

Total Credits: 12

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1000 - Firefighter I

Credit(s): 9
Lecture Hour(s): 6
Vocational Lab Hour(s): 4.50
Formerly FST 100 Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard.

FST 1007 - Hazardous Materials Operations (Level I)

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 107 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.

Fire Science: Officer I

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course.

Total Credits: 12

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 2001 - Instructional Methodology

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 201 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 2006 - Fire Co Superv and Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 206 Addresses the requisite knowledge and skills required to perform at level 1 as identified in National Fire Protection Association (NFPA) 1021, Fire Officer Professional Qualifications. Areas of focus include: fire department organization, company officer traits, roles and responsibilities, communications practices, administrative functions, safety, health and wellness, training, fire prevention, human resources management, and incident management and operations. The course prepares the learner for the Colorado Fire Officer I State Exams and JPR evaluations.

FST 2053 - NIMS

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FST 2002.
Formerly FST 253 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 2055 - Fire Service Management

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 255 Serves as the basic management course for present and potential members of the fire and emergency service professions. The course introduces the student to current fire service management practices, challenges, and real-world applications from the fire officers point of view. The course addresses decision-making, problem solving, necessary communication skills, conflict resolution, effective leadership skills, as well as the role of the fire service manager in supervising personnel and programs.

Firefighter Academy Structural Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Fire Science Technology program prepares students for entry-level positions in the fire service industry.

Certificate Program Description

The Fire Science Technology Certificate Programs vary in semester hours. These programs are designed to prepare individuals who have little or no firefighting experience for entry-level positions in the fire service industry, as well as special training for advancement for those already in the fire service. Most of the classes in the certificates related to structural firefighting can be applied to the Fire Science Associate of Applied Science Degree offered by Pueblo Community College.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

The Fire Science Technology Certificate Program requires 21 credits for completion.

A grade of "C" or higher is required in each course

Total Credits: 16

Certificate Requirements

ALSO SEE WILDLAND FIREFIGHTER

FST 1000 - Firefighter I

Credit(s): 9
Lecture Hour(s): 6
Vocational Lab Hour(s): 4.50
Formerly FST 100 Addresses the requirements necessary to perform at the first level of progression as identified in National Fire Protection Association (NFPA) 1001, Firefighter Professional Qualifications. This is a lecture and lab course for meeting the NFPA 1001, level I, standard.

FST 1007 - Hazardous Materials Operations (Level I)

Credit(s): 3
Lecture Hour(s): 3
Formerly FST 107 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 1060 - Candidate Physical Abilities Test Prep

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly FST 160 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 1075 - Special Topics

Credit(s): 0-12
Formerly FST 175 Provides students with a vehicle to pursue in-depth exploration of Special Topics of interest.

Fitter or Combination Welder Certificate

See list of Department Chairs on the Personnel page.

Program Description

Welders must be highly skilled and knowledgeable in a variety of welding processes to meet the challenges of advanced technology and new materials. Welding is not just a trade; it's a tool for many trades requiring a high level of training and technical knowledge. The Welding Technology program helps students develop skills through classroom studies and hands-on experience under close supervised instruction. Students learn about structural steel fabrication, layout work and pipe welding following detailed blueprints.

Total Credits: 20

Certificate Requirements

Core Requirements (20 Credits)

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

WEL 1025 - Introduction to Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024.
Formerly WEL 125 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 2024 - Gas Tungsten Arc Welding II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Prerequisite(s): WEL 1024, WEL 1025.
Formerly WEL 224 Covers Gas Tungsten Arc Welding (GTAW) operations utilizing a variety of base metals and advanced joint designs.

WEL 2025 - Advanced Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024, WEL 1025.
Formerly WEL 225 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 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

Forensic Computing Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 23

Certificate Requirements

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1032

Formerly CNG 133 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 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

CNG 2024 - Microsoft Windows Wireless Network

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 224 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 2058 - Digital Forensics

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): CNG 1032
Formerly CNG 258 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.

Fuels and Emissions Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 14

Certificate Requirements

ASE 1034 - Automotive Fuel and Emissions Systems I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 134 Focuses on the diagnosis and repair of automotive fuel emission control systems, filter systems, and spark plugs. This course also includes maintenance to Diesel Exhaust Fluid (DEF) systems.

ASE 2021 - Auto/Diesel Body Electrical

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly ASE 221 Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories.

ASE 2033 - Auto Fuel Injection and Emissions Systems II

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 233 Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.

ASE 2036 - Advanced Drivability Diagnosis/Repair

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 236 Focuses on lecture and laboratory experiences in the inspection, testing and repair of typical computerized engine control systems on customer vehicles.

General Automotive Technology, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Automotive Service Technology AAS degree teaches about auto maintenance. Students must pass a background check and a drug screening to be eligible for this program. Learn how to diagnose and repair auto problems. Learn about brake, electrical, engine, transmission, suspension, steering, and air conditioning systems. The program is nationally accredited. As PCC students, you can take exams to obtain ASE credentials from the National Institute for Automotive Service Excellence, This degree is transferrable to the bachelor's degree program at CSU Pueblo.

Total Credits: 77

General Education Requirements: 15

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative,

and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

OR

- a CCCS GT-MA1 course **Credit(s): 3**
- Any combination of gen ed electives **Credit(s): 9**

Core Curriculum Requirements: 58

ASE 1002 - Introduction to the Automotive Shop

Credit(s): 2
Lecture Hour(s): 2
Formerly ASE 102 Prepares the incoming automotive student to work in the shop safely and gain familiarity with the shop and common equipment.

ASE 1010 - Brakes I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 110 Covers the basics of how various systems on the automobile operate, maintenance requirements, and financial concerns related to operating and maintaining an automobile.

ASE 1011 - Automotive Brake Service II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 111 Covers diagnostics, test procedures, and repair to automotive foundation braking system. This course also introduces the components, types of Antilock Braking Systems (ABS), and traction control systems of current vehicles. This course meets MLR/AST/MAST program accreditation requirements.

ASE 1020 - Basic Auto Electricity

Credit(s): 2
Lecture Hour(s): 1.5
Vocational Lab Hour(s): 0.75
Formerly ASE 120 Introduces vehicle electricity, basic electrical theory, circuit designs, and wiring methods. This course focuses on multimeter usage and wiring diagrams. This course meets MLR/AST/MAST requirements.

ASE 1023 - Starting and Charging System

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 123 Covers the operation and theory of a vehicle battery, testing, service, and repair of starting and charging systems including voltage testing, draw testing. This course meets MLR/AST/MAST program requirements.

ASE 1030 - General Engine Diagnosis

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 130 Covers how to perform basic engine diagnosis to determine condition of engine including engine support systems. This course meets MLR/AST/MAST requirements.

ASE 1032 - Ignition System Diagnosis and Repair

Credit(s): 2
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 0.75
Formerly ASE 132 Focuses on lecture and related laboratory experiences in the diagnosis, service, adjustments and repair of various automotive ignition systems.

ASE 1034 - Automotive Fuel and Emissions Systems I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 134 Focuses on the diagnosis and repair of automotive fuel emission control systems, filter systems, and spark plugs. This course also includes maintenance to Diesel Exhaust Fluid (DEF) systems.

ASE 1040 - Suspension and Steering I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 140 Focuses on diagnosis and service of suspension and steering systems and components. This course meets MLR/AST/MAST requirements.

ASE 1041 - Suspension and Steering II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 141 Covers design, diagnosis, inspection, service of suspension, and steering systems used on light trucks and automobiles including power steering and Supplemental Restraint System (SRS) service. This course meets AST/MAST requirements.

ASE 1051 - Automotive Manual Transmission/Transaxles & Clutches I

Credit(s): 2
Lecture Hour(s): 1

Vocational Lab Hour(s): 1.5
Formerly ASE 151 Focuses on the diagnosis and repair of automotive manual transmissions, transaxles, clutches, and related components. This course meets AST/MAST requirements.

ASE 1052 - Manual Transmission, Transaxles and Clutches II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 152 Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all-wheel drive units.

ASE 1061 - Automotive Engine Repair & Rebuild

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly ASE 161 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 2010 - Automotive Power and ABS Brake Systems

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 210 Covers the operation and theory of the modern automotive braking systems including the operation, diagnosis, service, and repair of the anti-lock braking systems and power assist units. This course also covers the machining operations of today's automobile brake systems. This course meets AST/MAST requirements.

ASE 2021 - Auto/Diesel Body Electrical

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly ASE 221 Provides a comprehensive study of the theory, operation, diagnosis, and repair of vehicle accessories.

ASE 2033 - Auto Fuel Injection and Emissions Systems II

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 233 Focuses on lecture and related laboratory experiences in the diagnosis and repair of electronic fuel injection systems and modern exhaust systems.

ASE 2036 - Advanced Drivability Diagnosis/Repair

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3

Formerly ASE 236 Focuses on lecture and laboratory experiences in the inspection, testing and repair of typical computerized engine control systems on customer vehicles.

ASE 2040 - Suspension and Steering III

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 240 Covers operation of steering and power steering systems. It will also include different alignment types and procedures.

ASE 2050 - Automatic Transmission/Transaxle Service

Credit(s): 1
Lecture Hour(s): 1
Formerly ASE 250 Focuses on practical methods of maintaining, servicing, and performing minor adjustments on an automatic transmission and transaxle. This course meets MLR/AST/MAST requirements.

ASE 2051 - Automotive Transmission and Transaxle Repair

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly ASE 251 Covers diagnosis, principles of hydraulics, principles of electronic components, power flow, theory of operation including removal, installation, and replacement of transmission/transaxle and components. This course meets AST/MAST requirements.

ASE 2052 - Advanced Automatic Transmissions/Transaxles O/H

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 252 Covers the diagnosis, repair, and rebuild of automatic transmissions and transaxles including the hydraulic, electronic, and mechanical components. This course meets MAST requirements.

ASE 2053 - Advanced Manual Transmission/Transaxles

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 253 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 2064 - Introduction Automotive Heating and Air Conditioning

Credit(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 264 Covers basic operation of heating and air conditioning components. This course meets MLR/AST/MAST requirements.

ASE 2065 - Heating and Air Conditioning Systems

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly ASE 265 Emphasizes lecture and related laboratory experiences in the diagnosis and service of vehicle heating and air conditioning systems and their components.

ASE 2181 - Internship: Basic Heavy Duty and Power Train

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 281 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 ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

ASE 2182 - Internship: General (Summer)

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 282 Emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student takes all related sponsor requirements in (STS) Service Training Standards (General Motors) or ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Core electives, choose one option below **Credit(s): 4**

ASE 1062 - Automotive Engine Service & Repair

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 162 Covers engine sealing requirements and repair procedures including engine fasteners, bolt torque, repair of fasteners, cooling system, and basic engine maintenance. This course meets AST/MAST requirements.

ASE 2060 - Advanced Engine Diagnosis

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 260 Focuses on lecture and related laboratory experiences in the diagnosis and necessary corrective actions of automotive engine performance factors related to customer vehicles.

OR

ASE 2210 - Hybrid Vehicle/Electric Vehicle Safety and Operation

Credit(s): 4
Lecture Hour(s): 2.5
Vocational Lab Hour(s): 2.25
Provides an overview of HEV (Hybrid Electric Vehicles) and BEV (Battery Electric Vehicles) design, layout, systems, and operations emphasizing safety procedures.

Geology, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science (AS) Degree with Designation in Geology prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Science (BS) degree in Geology or Earth Sciences. Students who opt for the Bachelor of Science in Geology can choose to work in various occupational fields of science or engineering. Once a BS is completed, many students will pursue a higher or graduate degree in Geology.

Program Description

This program introduces the student to the discipline of Geology includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Geology. Upon transfer, students from Pueblo Community College who have earned the Associate of Science (AS) Degree with Designation in Geology will be ready to complete the last half of a BS in Geology at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (36 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Course (GT-CO3) *

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Science and Mathematics Courses (23 Credits)

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): GEY 1111
Formerly GEY 112 Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D

kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Elective (1 Credit)

Determined by transferring institution

Transfer Degrees

Note: In addition to meeting the requirements listed here, contact the department at the school to which you want to transfer for program-specific information.

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.A./B.S. Earth Sciences, Geology emphasis)
- Colorado Mesa University (B.S. Geosciences, Geology concentration)
- Colorado State University-Ft. Collins (B.S. Geology, Geology concentration)
- Fort Lewis College (B.S. Geology, Geology option)
- University of Colorado, Boulder (B.A. Geology)
- University of Northern Colorado (B.S. Earth Sciences, Geology emphasis)
- Western State Colorado University (B.A. Geology, Geology emphasis)

Graphic Design AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

Occupations for which students will be prepared for include: Graphic Artist, Layout Specialist, Illustrator, Graphic Designer, Production specialist, and Marketing and Promotions professional.

Program Description

While earning a Graphic Design A A S degree students develop an excellent foundation in art, design, computer technology, and business skills. Using industry standard software, students create graphic elements, design print and

electronic communication pieces, and produce or publish their work. Including advertising promotion, corporate identity, publication design and website design. An Internship experience allows the student to gain first-hand experience with employers.

Total Credits: 63

Degree Requirements

Semester 1 - Fall (15 Credits)

ART 1002 - Visual Concepts 2-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 131 Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1015 - Typography & Layout

Credit(s): 3
Vocational Lab Hour(s): 4.50
Corequisite(s): MGD 1001 or MGD 1002 or MGD 1012 or MGD 1013
Formerly MGD 105 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.

Semester 2 - Spring (15 Credits)

ART 1201 - Drawing I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 121 Investigates the various approaches and media that students need to develop drawing skills and visual perception.

ART 1401 - Digital Photography I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 139 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.

MAR 2020 - Principles of Advertising

Credit(s): 3
Lecture Hour(s): 3
Formerly MAR 220 Examines the principles and practices of advertising and its relationship to business in the promotion of a business or organization. Areas of major emphasis include advertising principles, strategies, media, copy, and ethical considerations.

MGD 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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.

Mathematics (3 Credits)

MAT 1160 - Financial Mathematics

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 112 Covers the fundamentals of financial mathematics. Topics include pricing, taxes, insurance, interest, annuities, amortization, and investments.

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Or Choose Any GT-MA1 Mathematics

MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 120 Highlights connections between mathematics and the society in which we live and is intended for liberal arts majors. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1320 - Finite Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 123 Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2431 - Calculus III with Engineering Applications: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2420
Formerly MAT 204 Focuses on the traditional subject matter of multivariable Calculus with an additional emphasis on

word problems and problem solving. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals, Stokes', Divergence Theorems and Green's Theorems, and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2520 - Discrete Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2410
Formerly MAT 215 Concentrates on formal logic, algorithms, induction proofs, equivalence relations and graphs. This course is designed for mathematics and computer science students. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2561 - Differential Equations with Engineering Applications: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2430 or MAT 2431
Formerly MAT 261 Introduces ordinary differential equations. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms with an additional emphasis on engineering applications and problem solving. Appropriate technology related to the mathematical field may be used as a component of the course. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2560 - Differential Equations: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 2420
Formerly MAT 265 Explores techniques of problem solving and applications. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Semester 3 - Fall (12 Credits)

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MGD 1012 - Adobe Illustrator I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 112 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 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications, conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

MGD 1033 - Graphic Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1011 or MGD 1012 or MGD 1013 or MGD 1015
Formerly MGD 133 Focuses upon the study of design layout and conceptual elements concerning graphic design projects such as posters, advertisements, logos, and brochures

MGD 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

Semester 4 - Spring (15 Credits)

MGD 2033 - Graphic Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1033
Formerly MGD 233 Continues instruction in idea development for advanced graphic design

MGD 2041 - Web Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 241 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 Web sites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

MGD 2056 - Graphic Design Production

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): (MGD 1020 or MGD 1015 or 1014) and MGD 1012 and MGD 1013

Formerly MGD 256 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 2068 - Business for Creatives

Credit(s): 3
Lecture Hour(s): 3
Formerly MGD 268 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.

Human Nutrition (3 Credits)

HWE 1050 - Human Nutrition

Credit(s): 3
Lecture Hour(s): 3
Formerly HWE 100 Introduces basic principles of nutrition with emphasis on personal nutrition. This course focuses on macro and micro nutrients and their effects on the functions of the human body. Special emphasis is placed on the application of wellness, disease, and lifespan as it pertains to nutrition.

Or Choose any GT-SC1 Physical & Life Sciences with lab

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English
Formerly ANT 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1110 - Astronomy I With Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 101 Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3

Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 102 Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT- SC1 category.

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and CHE 1011
Formerly CHE 102 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, Intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1005 - Chemistry in Context with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 105 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ENV 1111 - Environmental Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly ENV 101 Introduces the basic concepts of ecology and the relationship between environmental problems and biological systems. This course includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. A holistic approach is used when analyzing how the foundations of natural sciences interconnect with the environment. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1011 - Physical Geography: Landforms with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 111 Examines 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. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 112 Introduces the principles of meteorology, climatology, ecology, and regional climate classification. The course investigates the geographic factors which influence climate and ecosystems such as topography, elevation, winds, ocean currents, and latitude. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): GEY 1111
Formerly GEY 112 Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1135 - Environmental Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 135 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MET 1050 - General Meteorology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly MET 150 Provides an introduction to general meteorology and atmospheric sciences. Includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Examines the development of weather system, such as storm systems, hurricanes, weather

fronts, and cloud development. Stresses the concepts of climatology. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1107 - Energy Science & Technology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): MAT 0300 with a grade of S/C or better.
Formerly PHY 107 Explores the science of energy and energy technologies with a focus on renewable energy resources and clean technologies. The course provides a background in the physics of energy, energy transfer, and the current state of energy technology. Evaluation of the future utilization of renewable technologies is included. Topics may include conservation of energy; mechanical, electrical, heat, and fluid power systems; energy transfer and loss; energy audits; and testing solar collectors and wind generators. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4

Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Semester 5 - Summer (6 credits)

MGD 2080 - Internship

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 280 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 2089 - Capstone

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 289 A demonstrated culmination of learning within a given program of study.

Hairstylist Barber Crossover

See list of Department Chairs on the Personnel page.

The Barbering Crossover Certificate is designed for Licensed Hairstylists to learn the remaining skills that Barbers know they can carry a dual license in the State of Colorado. The program includes techniques in men's hair cutting, men's facials, shaving, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on manikins and the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

Total Credits: 6

HST

Students wanting to obtain a Barbering License by completing the Barbering Crossover Certificate will have to have already obtained their Hairstylist License.

Core Curriculum Summer Semester (6 credits)

BAR 1007 - Introduction to Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 107 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 1008 - Intermediate Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 108 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 2007 - Advanced Shaving, Honing & Stropping

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 207 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 1066 - Introduction to Facial Massages & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 166 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 1067 - Intermediate Facial Massage & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 167 Focuses on practical application dealing with anatomy, skin disorders, skin types and facial shapes. Students help patrons select proper skin care treatments

BAR 2066 - Advanced Facial Massage & Skin Care

Credit(s): 1
Clinic Hour(s): 2

Formerly BAR 266 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.

Hairstylist Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Cosmetology program prepares students for careers in cosmetology, hairstyling, esthetics (facial care) and manicure (nail care). Students will receive the specialized training necessary to be prepared for a successful career with limitless opportunities for both men and women. Students learn the skills to keep pace with the fashion world and stand ready to meet the constantly changing demands of one of today's largest-growing service industries. Those opportunities can provide both part-time and full-time employment in specialty areas.

Program Description

The Cosmetology program teaches students job entry skills, customer communication and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

- Hairstylist certificate – This certificate program provides training in hair care. Instruction is provided in hair cutting, hair styling, hair coloring and chemical textures services.

Total Credits: 40

Certificate Requirements

Core Requirements (40 Credits)

COS 1003 - Shampoo/Rinses/Conditioners I

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 103 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 1010 - Introduction to Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 110 Introduces theory pertaining to the law of color, theory of color, chemistry of color, product knowledge, and analysis of hair and scalp. This course covers basic application techniques and procedures for the application of haircolor.

COS 1011 - Intermediate: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 111 Expands on haircoloring theory and practical application of color products, formulations of color, level and shades of color. Students will learn application techniques in a specialized class or in a supervised salon setting.

COS 1020 - Introduction to Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 120 Introduces haircutting theory relevant to patron protection, angles, elevations, and the analysis of hair textures as related to hair cutting procedures. This course covers proper use and care of hair cutting implements, basic hair cutting techniques using various cutting implements, and disinfection and sanitation procedures as they relate to haircutting.

COS 1021 - Intermediate I: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020
Formerly COS 121 Expands on basic haircutting theory incorporating facial shapes, head and body forms to determine the appropriate techniques required to complete a client haircut. Students will apply hair cutting techniques in specialized classes or in the supervised salon.

COS 1030 - Introduction to Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 130 Combines theory with the practical application of hairstyling. This course covers roller placement, hair molding and shaping, pin curls, finger waves, comb-out techniques, air forming, thermal straightening, or curling for short to long hair.

COS 1031 - Intermediate I: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 131 This course covers the accepted methods of styling hair, air forming, roller sets, finger waves, pin curls, braiding, and hair pressing.

COS 1040 - Introduction to Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 140 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 1041 - Intermediate I: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 141 Emphasizes theory and practical application of chemical texture, including permanent waves and chemical relaxers, in a supervised salon setting. Students will practice different wrapping techniques required by trend styles in a classroom or salon setting.

COS 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 1060 - Introduction to Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 160 This course covers various methods of sanitation, disinfection; and principles of workplace safety, infection control and prevention. Topics presented in this course include: classroom study of bacteriology, chemistry of cleaning versus disinfecting products that are used in the cosmetology industry, and terminology dealing with infection control.

COS 1061 - Intermediate I: Disinfection, Sanitation & Safety

Credit(s): 1
Clinic Hour(s): 2

Formerly COS 161 This course focuses on the theory and daily practice of proper methods of disinfection, sanitation and safety procedures as related to all phases of cosmetology. Topics presented in this course include: terminology and training of disinfection, sanitation and safety procedures, and customer service in a supervised salon setting or specialized class.

COS 2003 - Shampoo/Rinses/Conditioners II

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1003.
Formerly COS 203 This course covers theory and practical training in shampoos, rinses, and conditioners and examines advanced techniques to prepare the student for employment. Instruction includes preparation for the Colorado State Board Licensing Examination for shampoos, rinses, and conditioners.

COS 2010 - Intermediate II: Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1010.
Formerly COS 210 This course covers theory and practical application of color products, formulations of color, level and shades of color. Students will practice haircoloring techniques in a specialized class or in a supervised salon setting.

COS 2011 - Advanced Hair Coloring

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1011.
Formerly COS 211 This course covers advanced theory and practical techniques in haircoloring. Course covers the recognition of color problems and color correction procedures in preparation for the Colorado State Board Licensing Examination. Topics in this course include: advanced techniques, color formulation, and product knowledge.

COS 2020 - Intermediate II: Haircutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1020.
Formerly COS 220 This course covers haircutting theory related to facial shapes, head and body forms to determine the techniques necessary for client's specified haircut and practical applications of haircutting techniques for various client requests.

COS 2021 - Advanced Hair Cutting

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1021.
Formerly COS 221 This course covers advanced haircutting techniques utilizing multiple cutting tools and emphasizes current fashion trends and preparation for the Colorado State Licensure examination.

COS 2030 - Intermediate II: Hair Styling

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): COS 1030.
Formerly COS 230 This course covers accepted methods of styling hair, including: air forming, roller sets, iron sets, finger waves, braiding and hair pressing. Students will practice hairstyling techniques for client purposes in specialized classes or in a supervised salon setting.

COS 2031 - Advanced Hair Styling

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1031.
Formerly COS 231 This course covers hairstyling theory and advanced techniques in all phases of hair styling to prepare the student for employment. Training is a combination of supervised salon work and specialized classes. Students will prepare for the Colorado State Board Licensing Examination.

COS 2040 - Intermediate II: Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1040.
Formerly COS 240 This course covers theory of chemical texture and practical application of permanent waves and chemical relaxers in specialized classes or a supervised salon setting. Students will practice different wrapping techniques required by trend styles or per client request.

COS 2041 - Advanced Chemical Texture

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1041.
Formerly COS 241 This course covers advanced techniques for chemical texture and current industry standards of practice to prepare the student for employment and the State Board Licensing Examination. Instruction is provided in specialized classes or supervised salon setting.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

COS 2060 - Intermediate II: Disinfection, Sanitation & Safety

Credit(s): 2
Clinic Hour(s): 4

Formerly COS 260 This course covers infection control theory and practice of proper methods of sterilization, disinfection, sanitation, and safety procedures as related to all phases of the industry. Topics for this course include: terminology and training of disinfection, sanitation, and safety procedures. The individual's responsibility to provide a safe work environment is practiced.

COS 2061 - Advanced Disinfection, Sanitation & Safety

Credit(s): 1
Clinic Hour(s): 2

Prerequisite(s): COS 1061.
Formerly COS 261 This course covers advanced training on decontamination and safety practices in a supervised salon and/or classroom setting and primarily focuses on student preparation for the Colorado State Board Licensing Examination in decontamination and safety for all aspects of the industry. Topics for this course include: Occupational Safety and Health Administration (OSHA) requirements for schools and salons.

COS 2062 - Advanced II: Disinfection, Sanitation & Safety

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): COS 2060.
Formerly COS 262 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.

Health Info Technology (HIT)

See list of Department Chairs on the Personnel page.

Program Description

This certificate bridges the gap that can exist between healthcare providers and practitioners of different disciplines, such as accounting and cybersecurity. It is of utmost importance to understand and appreciate the singular pressures and needs when entering healthcare to provide the special skills and expertise of ancillary professions. It is a must for the professional who wishes to serve with excellence to understand the reasons and regulations of healthcare.

The Health Info Technology (HIT) Certificate is designed for

- Students who would like to learn more about the health information field
- Professionals and students of all disciplines who would like to practice within the administrative side of healthcare
    - Accounting
    - Finance
    - Human Resources
    - Business Intelligence
    - Data Analytics
    - Computer Information Systems
    - Cyber Security
    - Nutrition
    - and just about all other professions!

Total Credits: 18

Core Curriculum Requirements

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 102 Introduces medical vocabulary through the study or word structures and phrases. Reinforcement is provided through writing narratives and examining medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis will be on learning to read, pronunciation and interpretation of medical documentation . The importance of HIPAA is illustrated, in both physical and electronic dissemination of medical records.

HIT 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 111 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 1012 - Legal Aspects for Health Records

Credit(s): 2
Lecture Hour(s): 2

Formerly HIT 112 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 1020 - Working with Health IT Systems

Credit(s): 4
Lecture Hour(s): 4
Formerly HIT 120 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 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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 2022 - Quality Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 222 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.

Health Information Management BAS

See list of Department Chairs on the Personnel page.

Program Description

The PCC graduate will understand the issues in contributing to quality healthcare, have a heart for the needs of the patient population, and have the technological skills to deliver excellent support to frontline providers and manage all aspects of the health record.

- Health information is human information – we focus on patient and quality care
- Fully online (except for the internship that is flexible and workable for students with other commitments)
- Student-centered
- Curriculum designed to produce workforce-ready graduates who can work locally and remotely
- Students develop skills and competencies created for success in the rapidly evolving health information environment
- Program incorporates engagement with local professional community
- Well-educated staff with experience in many areas of health information

- Currently, the program is in the process of accreditation by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) so that the graduates will be eligible to sit for the Registered Health Information Administrator (RHIA) exam
- Program embraces the growing importance of technology and is an Approved Educational Partner (EAP) of the Health Information Management Systems Society (HIMSS)

Total Credits: 120

General Education Requirements: 31

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

OR

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50

Formerly CIS 118 This course 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.

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

- Any 3 credit course with a COM prefix **Credit(s): 3**

Lower Division: 48

CIS 1055 - PC Spreadsheet Concepts: (Software Package)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 155 Introduces basic to advanced features of spreadsheet software to design and create accurate, professional worksheets for use in business and industry. The course includes entering data, creating formulas, professional formatting, creating charts, creating, sorting and filtering tables, creating and using templates, applying built-in functions, creating pivot tables, applying "what-if analysis" with data tables, creating macros, and using solver features.

OR

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 102 Introduces medical vocabulary through the study or word structures and phrases. Reinforcement is provided through writing narratives and examining medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis will be on learning to read, pronunciation and interpretation of medical documentation . The importance of HIPAA is illustrated, in both physical and electronic dissemination of medical records.

HPR 1032 - Disease Process and Treatment

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): BIO 1006
Formerly HPR 232 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 2061 - Healthcare Software

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 261 This course covers basic computer system architecture, file structure, and design for health care 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 1005 - Principles of Healthcare Reimbursement

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020 and HIT 2041
Formerly HIT 105 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 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 111 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 1012 - Legal Aspects for Health Records

Credit(s): 2
Lecture Hour(s): 2
Formerly HIT 112 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 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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 1088 - Health Information Practicum I

Credit(s): 2
Practicum Hour(s): 4
Prerequisite(s): HIT 2052 or Department Chair Approval
Formerly HIT 188 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 2020 - ICD Coding I

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032
Formerly HIT 220 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 2022 - Quality Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 222 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 2025 - Health Information Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 225 Concentrates on the principles of management as they relate to the administration of the health information management department as part of a health care organization.

HIT 2052 - ICD Coding II for Certification

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020, HIT 2041
Formerly HIT 252 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 2089 - HIT Capstone Course

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required
Formerly HIT 289 Provides a demonstrated culmination of learning within a given program of study.

HIT 2041 - CPT Coding Basic Principles

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032.
Formerly HIT 241 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 1089 - Practicum

Credit(s): 3
Practicum Hour(s): 9
Prerequisite(s): Department chair approval
Provides an opportunity to gain practical experience in applying skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

HIT 2068 - Certification Test Preparation

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Department Chair Approval.
Formerly HIT 268 Prepares students who have made the decision to obtain a national health information technology credential by completing national credentialing exams.

Upper Division: 41

HIM 3000 - Data Structure and Design in HIM – Domain I

Credit(s): 3
Lecture Hour(s): 3
Compares diverse stakeholder perspectives of the delivery of healthcare services and analyzes corporate strategies for the management of information.

HIM 3005 - Health Record Compliance and Data Integrity – Domain I

Credit(s): 3
Lecture Hour(s): 3
Evaluates policies and strategies to achieve data integrity and examines recommended health record content across the healthcare system.

HIM 3010 - Health Information Governance – Domain I

Credit(s): 3
Lecture Hour(s): 3
Utilizes classification systems, clinical vocabularies, and medical nomenclatures and evaluates data dictionaries and datasets for compliance with information governance standards.

HIM 3015 - Health Privacy and Security – Domain II

Credit(s): 3
Lecture Hour(s): 3
Examines health information privacy and security strategies for recommended implementation in the healthcare organization and analyzes corporate compliance requirements throughout the health information life cycle.

HIM 3020 - Health Information Systems – Domain III

Credit(s): 3
Lecture Hour(s): 3
Analyzes technologies for health information management and introduces health informatics concepts for the management of health information.

HIM 3025 - Data Analytics and Visualization in Healthcare – Domain III

Credit(s): 3
Lecture Hour(s): 3
This course examines healthcare findings using data visualizations and the comparison to research methodologies pertaining to healthcare.by interpreting statistics for health services

HIM 3030 - Data Use and Management in Healthcare – Domain III

Credit(s): 3
Lecture Hour(s): 3
Examines data management techniques and identifies standards for the exchange of health information. This course includes assessment of systems and recommendation of appropriate systems to meet organizational needs.

HIM 4000 - Revenue Cycle Management – Domain IV

Credit(s): 3
Lecture Hour(s): 3
Evaluates the assignment of diagnostic and procedural codes and groupings in accordance with official guidelines. This course examines techniques for management of components of the revenue cycle; and evaluates compliance with regulatory requirements and reimbursement methodologies.

HIM 4005 - Health Law and Compliance – Domain V

Credit(s): 3
Lecture Hour(s): 3
Examines regulatory compliance with legal processes impacting health information; evaluates corporate compliance with external regulatory forces; analyzes components of risk management for compliance with local, state, and federal policies.

HIM 4010 - Management and Leadership in Healthcare – Domain VI

Credit(s): 3
Lecture Hour(s): 3
Examines fundamental leadership skills and assesses the impact of organizational change.

HIM 4015 - Human Resources and Financial Mgmt in Healthcare – Domain VI

Credit(s): 3
Lecture Hour(s): 3
Analyzes human resource strategies for organizational best practices; identifies data-driven performance improvement techniques for decision-making; analysis of financial management processes for staffing.

HIM 4020 - Org Ldshp for DEI in Healthcare-Domain VI

Credit(s): 3
Lecture Hour(s): 3
Examines leadership behaviors that embrace cultural diversity, assesses ethical standards of practice, and facilitates consumer engagement activities.

HIM 4089 - HIM Capstone Course

Credit(s): 0-12
Practicum Hour(s): 0-36
To be determined by the individual instructor. A Course description will be developed for each course and documented within the course syllabus.

Healthcare Information Systems AAS

See list of Department Chairs on the Personnel Page

Program Description

Would you like to solve problems to improve patient care? Improve the delivery of healthcare through technology? Impact the clinical workflow? Healthcare extends beyond direct patient care. Explore the various opportunities in health technology and information management to revolutionize the world of healthcare through the power of information and technology.

This degree prepares the students for rewarding careers in healthcare that facilitates the work of front-line providers and makes a difference in patients' lives. Healthcare Information Systems professionals play a vital role in the day-to-day operations but work behind the scenes to empower their colleagues by providing high-quality, efficient, secure, and user-friendly electronic systems. Some of the many roles and duties include:

- Information system management, implementation, and updates
- Health Informatics Specialist
- Data management
- Analysis and reporting
- Information compliance and security
- Collaboration, training, and support
- Health Information Technologist and Registrars

Some of the potential workplaces:

- Hospitals and Health Systems
- Physician and Dentist Offices

- Government Agencies
- Health Plans
- Technology Vendors
- Research/Academic Institutions

Projected Job and Wage Growth 2023 – 2033 is BRIGHT!!

PCC is an Organizational Affiliate of the global Health information Management Systems Society (HIMSS), as well as a HIMSS Approved Educational Provider (AEP). HIMSS is the premier international association of health information systems management professionals and the leading source of innovation and progress within healthcare management systems.

Through this program, PCC HIT students are prepared to sit for the Certified Associate of Health Information Management Systems (CAHIMS) credential.

Total Credits: 63

General Education (15 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

- Gen Ed Elective (PSY or COM) **Credit(s):** 3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

HIT Core Curriculum (22 credits)

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 102 Introduces medical vocabulary through the study or word structures and phrases. Reinforcement is provided through writing narratives and examining medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis will be on learning to read, pronunciation and interpretation of medical documentation . The importance of HIPAA is illustrated, in both physical and electronic dissemination of medical records.

HIT 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 111 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 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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 2061 - Healthcare Software

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 261 This course covers basic computer system architecture, file structure, and design for health care 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 2022 - Quality Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 222 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 1012 - Legal Aspects for Health Records

Credit(s): 2
Lecture Hour(s): 2
Formerly HIT 112 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 2089 - HIT Capstone Course

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required
Formerly HIT 289 Provides a demonstrated culmination of learning within a given program of study.

HIT 1089 - Practicum

Credit(s): 3
Practicum Hour(s): 9
Prerequisite(s): Department chair approval
Provides an opportunity to gain practical experience in applying skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

HIT Information Systems (20 credits)

HIT 1020 - Working with Health IT Systems

Credit(s): 4
Lecture Hour(s): 4
Formerly HIT 120 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.

CNG 1020 - A+ Certification Preparation

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly CNG 120 Prepares students for the CompTIA A+ certification examination. PC hardware and operating system installation, configuration and troubleshooting are practiced and reviewed using A+ techniques.

HIT 1022 - Workflow Fund of Healthcare

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 122 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.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 1036 - Guide to IT Disaster Recovery

Credit(s): 3
Lecture Hour(s): 3
Formerly CNG 136 Presents methods to identify technology and communication infrastructure vulnerabilities and appropriate countermeasures to prevent and mitigate failure risks for an organization. The course will take an enterprise-wide approach to developing a disaster recovery plan.

HIT Electives (6 credits)

Choose two courses from:

HIT 1075 - Special Topics

Credit(s): 0-12
Formerly HIT 175 Provides students with a vehicle to pursue in depth exploration of special topics of interest.

HIT 2064 - Data Visualization

Credit(s): 4
Lecture Hour(s): 4
Formerly HIT 264 Introduces data visualization tools and techniques software, as well as increasing proficiency in Excel. Students will be able to tell a story with data, communicating observations in a clear, compelling way that provides meaning and explanation. As part of this course, students are also required to complete a professional practicum experience to apply classroom knowledge in a clinical setting.

HIT 2065 - Data Analytics Applications

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 265 Deepens understanding of current and emerging practices in the application of data analytics. Topics include clinical, financial, operations and qualitative analytics; trends in practices; customer expectations; regulations that affect analytics; and ethical issues in gathering, analyzing and reporting healthcare data. Explore the roles and applications of descriptive, retrospective and prescriptive analytics in various settings.

High Pressure Pipe Welder Mini-Certificate

See list of Department Chairs on the Personnel page.

Program Description

Welders must be highly skilled and knowledgeable in a variety of welding processes to meet the challenges of advanced technology and new materials. Welding is not just a trade; it's a tool for many trades requiring a high level of training and technical knowledge. The Welding Technology program helps students develop skills through classroom studies and hands-on experience under close supervised instruction. Students learn about structural steel fabrication, layout work and pipe welding following detailed blueprints.

Total Credits: 16

Certificate Requirements

Core Requirements (16 Credits)

WEL 2039 - 2G-Horizontal Pipe A.S.M.E.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2033.
Formerly WEL 239 Instructs in safety, theory, and practical applications in joint fit-up, design, and welding pipe in the 2-G Horizontal position. This course teaches 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 2041 - 5G-Verticial Up A.S.M.E.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2039.
Formerly WEL 241 Instructs in safety, theory, and practical applications in joint fit-up, design, and welding pipe in the 5-G Vertical up position. This course teaches 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 2042 - 6G-45 All Sizes Pipe

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2041.
Formerly WEL 242 Instructs in safety, theory, and practical applications in joint fit-up, design, and welding pipe in the 6-G 45° Uphill position. This course teaches 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 2043 - Testing All Sizes Pipe

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 243 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.

History, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in History prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts degree (BA) in history. Students who opt for a bachelor's degree in history can choose to work in several occupational fields including education at multiple levels, historical and/or corporate research, public history and many other related areas of social sciences. Once a BA is completed, students may pursue a higher or graduate degree in history, if interested.

Program Description

The Associate of Arts Degree with Designation in History introduces students to the field of history and includes the course work to meet general education requirements that are common to all Colorado four-year institutions. The degree is designed for students who want to transfer to a four-year college or university to pursue a bachelor's degree in history. Completion of the AA degree completes the first two years of a bachelor's degree in history, and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in history.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with a designation in history, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (34 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (3 Credits)

- Select from a GT Pathways Mathematics course (GT-MA1) *, prefer MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Natural and Physical Sciences (7 Credits)

One of these courses must include a laboratory component

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1 **or** GT-SC2) *

Arts and Humanities (9 Credits)

- Select three from a GT Pathway course from any category (GT-AH1, GT-AH2, GT-AH3, **or** GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two from a GT Pathway course from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 101 Explores trends within events, peoples, groups, ideas, and institutions in Western Civilization from antiquity to 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

or

HIS 1110 - The World: Antiquity-1500: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 111 Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This course focuses on common cultural trends. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Additional Required History Courses (15 Credits)

HIS 1320 - Western Civ: 1650-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 102 Explores trends within events, peoples, groups, ideas, and institutions in Western civilization since 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

or

HIS 1120 - The World: 1500-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 112 Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through the perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

- Choose one additional GT Pathways HIS course (GT-HI1) *

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Electives (11 Credits)

Determined by transferring institution
Note: Students planning to transfer to University of Colorado Boulder must take either HIS 1310 or HIS 1320 to fulfill this requirement.

Students planning to transfer to CSU-Fort Collins are advised to complete at least two semesters of one college-level foreign language.

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. History, Anthropology, & Political Science: History)
- Colorado Mesa University (B.A. History; History or Secondary Education concentrations)
- Colorado State University-Ft. Collins (B.A. History; General History concentration)
- Colorado State University-Pueblo (B.A. History; General emphasis; B.S. History; General emphasis)
- Fort Lewis College (B.A. History; United States Option)
- Metropolitan State University of Denver (B.A. History)
- University of Colorado, Boulder (B.A. History)
- University of Colorado, Colorado Springs (B.A. History)
- University of Colorado, Denver (B.A. History)
- University of Northern Colorado (B.A. History; Liberal Arts emphasis)
- Western State Colorado University (B.A. History)

HIT Medical Coding AAS

See list of Department Chairs on the Personnel page.

Program Description

Health Information Technology (HIT) encompasses the study of healthcare and information technology. The PCC program offers a solid foundation for employment throughout the revenue cycle (from a patient's first appointment to the time the bill is paid in full). The HIT Associate of Applied Science with emphasis in Medical Coding is expanding on the Medical Coding Certificate by including courses of a more managerial aspect of the field, such as Legal Aspects of Health Information, Quality Improvement, and Health Information Management.

Growing Demand for Health Information Skills

The need for health information professionals is expanding in various areas of healthcare, creating opportunities to:

- Specialize or diversify in practice areas
- Engage in roles related to:
    - Data analysis
    - Information technology
    - Management and administration
    - Communication and collaboration
    - Education and training
    - Regulatory compliance and privacy
    - Documentation and research

- Quality improvement

Accreditation and Credentials

The PCC HIT Program accreditation by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) makes the PCC HIT students:

- prepared to earn AHIMA medical coding credentials
- eligible to sit for the Registered Health Information Technician (RHIT) professional credentialing exam

Total Credits: 63

State Guaranteed Transfer Courses (16 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Core Curriculum Requirements (25 credits)

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 102 Introduces medical vocabulary through the study or word structures and phrases. Reinforcement is provided through writing narratives and examining medical records. Anatomy and physiology of all body systems are reviewed with discussion of related diseases, diagnostic procedures, treatments and drugs. Emphasis will be on learning to read, pronunciation and interpretation of medical documentation . The importance of HIPAA is illustrated, in both physical and electronic dissemination of medical records.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

HIT 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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 2061 - Healthcare Software

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 261 This course covers basic computer system architecture, file structure, and design for health care 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 2025 - Health Information Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 225 Concentrates on the principles of management as they relate to the administration of the health information management department as part of a health care organization.

HIT 2022 - Quality Management

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 222 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 1012 - Legal Aspects for Health Records

Credit(s): 2
Lecture Hour(s): 2
Formerly HIT 112 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 2089 - HIT Capstone Course

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required
Formerly HIT 289 Provides a demonstrated culmination of learning within a given program of study.

HIT 1089 - Practicum

Credit(s): 3
Practicum Hour(s): 9
Prerequisite(s): Department chair approval
Provides an opportunity to gain practical experience in applying skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Medical Coding (22 credits)

HIT 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 111 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 2020 - ICD Coding I

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032
Formerly HIT 220 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 2041 - CPT Coding Basic Principles

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032.
Formerly HIT 241 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.

HPR 1032 - Disease Process and Treatment

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): BIO 1006
Formerly HPR 232 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 2052 - ICD Coding II for Certification

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020, HIT 2041
Formerly HIT 252 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 1005 - Principles of Healthcare Reimbursement

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020 and HIT 2041
Formerly HIT 105 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 1088 - Health Information Practicum I

Credit(s): 2
Practicum Hour(s): 4
Prerequisite(s): HIT 2052 or Department Chair Approval
Formerly HIT 188 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: Medical Coding

See list of Department Chairs on the Personnel page.

Program Description

Health Information Technology (HIT) combines the study of healthcare and information technology and provides a solid foundation for employment throughout the revenue cycle (from patients' scheduling of the first appointment to the time the bill is paid in full).

Students in the Medical Coding certificate program are prepared to sit for professional medical coding credentialing exams offered by the American Health Information Management Association (AHIMA):

- Certified Coding Associate (CCA), or
- Certified Coding Specialist (CCS)

This certification makes students employable in entry-level or mid-level positions as certified coders in various settings, including:

- Acute-care hospitals
- Ambulatory care facilities
- Long-term or skilled-care nursing facilities
- Physician offices
- Insurance companies
- Other environments utilizing medical coding and health information skills

Opportunities for Specialization

The demand for specialization in coding and coding management is increasing, enabling coding professionals to:

- Narrow or broaden their scope of practice
- Explore innovative roles such as:
    - Clinical data specialist
    - Medical records reviewer
    - Medical records field technician
    - Remote medical coder

- Reimbursement specialist
- Coding auditor
- Various registry roles

Benefits of the Affiliation with AHIMA

- Access to the leading source of HI knowledge
- Accreditation by the AHIMA Professional Certificate Approval Program (PCAP)

Total Credits: 42

HIT Medical Coding - AHIMA Accredited Certified Coding Associate (42 credits)

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

HIT 1002 - Medical Vocabulary for Documentation

Credit(s): 3
Lecture Hour(s): 3
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CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

HIT 1011 - Health Data Management and Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 111 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 2020 - ICD Coding I

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032
Formerly HIT 220 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 2041 - CPT Coding Basic Principles

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): HPR 1032.
Formerly HIT 241 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 1050 - Healthcare Delivery Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 150 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.

HPR 1032 - Disease Process and Treatment

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): BIO 1006
Formerly HPR 232 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 2061 - Healthcare Software

Credit(s): 3
Lecture Hour(s): 3
Formerly HIT 261 This course covers basic computer system architecture, file structure, and design for health care 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 2052 - ICD Coding II for Certification

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020, HIT 2041
Formerly HIT 252 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 1005 - Principles of Healthcare Reimbursement

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): HIT 2020 and HIT 2041
Formerly HIT 105 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 1088 - Health Information Practicum I

Credit(s): 2
Practicum Hour(s): 4
Prerequisite(s): HIT 2052 or Department Chair Approval
Formerly HIT 188 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 2068 - Certification Test Preparation

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Department Chair Approval.
Formerly HIT 268 Prepares students who have made the decision to obtain a national health information technology credential by completing national credentialing exams.

HIT 1089 - Practicum

Credit(s): 3
Practicum Hour(s): 9
Prerequisite(s): Department chair approval
Provides an opportunity to gain practical experience in applying skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Industrial Technology Maintenance Level I Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Industrial Technology Maintenance Level one Certificate provides foundational skills. Students may start as an entry level operator and are encouraged to obtain the Level Two Certificate and the degree to pursue careers as an electronics technician, an electro-mechanical technician, a semiconductor manufacturing technician, or an electro-mechanical field service technician.

Total Credits: 31

Certificate Requirements

Fall Semester (15 Credits)

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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.

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

MAC 2056 - Industrial Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 256 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation, and maintenance of plant equipment. It includes safety, fit, threads, bearings, fasteners, hardware, lubricants, and assembly.

Spring Semester (16 Credits)

ELT 2252 - Motors and Controls

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 252 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 2254 - Industrial Wiring

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 254 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 2358 - Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): (ELT 1206 or EIC 1201) AND ELT 2252
Formerly ELT 258 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.

MAC 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 2065 - Mechanical Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 265 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation and maintenance of plant equipment. It includes keys, keyways, belts, chains and drives, gears and drives, seals, shafts, and coupling alignment.

Industrial Technology Maintenance Level II Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Industrial Technology Maintenance Level Two Certificate provides advanced technical skills as students pursue careers as an electronics technician, an electro-mechanical technician, a semiconductor manufacturing technician, or an electro-mechanical field services technician. Students are encouraged to obtain an AAS degree for supervisory positions.

Total Credits: 16

Certificate Requirements

Fall Semester

ELT 2357 - Sensors and Transducers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 257 Enables the student to study, construct, test and evaluate methods of testing and controlling common industrial processes. Includes sensing systems, transducers, measurement techniques, systems interfacing, process control and data acquisition.

ELT 2359 - Advanced Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 2358
Formerly ELT 259 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 2089 - Capstone: Automated Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 289 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.

MTE 2320 - Fluid Power Control

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): MTE 1102 or Corequisite below
Corequisite(s): MAT 1140 or higher
Formerly MTE 238 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.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

Industrial Technology Maintenance, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Industrial Technology Maintenance Program provides the student with knowledge and essential skills in the complex electro-mechanical systems found in production facilities. Learn about digital electronics, print reading, motors and controls, and mechanical components. Be prepared for the work force needs in this growing industry. The Program's name (formerly Electromechanical Technology) was changed to Industrial Technology Maintenance to align with industry certifications.

Total Credits: 62

General Education Requirements (16 credits)

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

COM 1105 - Career Communication

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 105 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.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

Core Requirements (28 credits)

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

ELT 2252 - Motors and Controls

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 252 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 2254 - Industrial Wiring

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 254 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 2357 - Sensors and Transducers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 257 Enables the student to study, construct, test and evaluate methods of testing and controlling common industrial processes. Includes sensing systems, transducers, measurement techniques, systems interfacing, process control and data acquisition.

ELT 2358 - Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1

Vocational Lab Hour(s): 3
Prerequisite(s): (ELT 1206 or EIC 1201) AND ELT 2252
Formerly ELT 258 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 2359 - Advanced Programmable Logic Controllers

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 2358
Formerly ELT 259 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 2080 - Internship

Credit(s): 1-12
Internship Hour(s): 3-36
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 280 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 2089 - Capstone: Automated Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 289 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.

Requirements (18 credits)

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 2065 - Mechanical Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly MAC 265 This course covers common mechanical components used on industrial equipment. It is designed to assist maintenance staff in the removal, installation and maintenance of plant equipment. It includes keys, keyways, belts, chains and drives, gears and drives, seals, shafts, and coupling alignment.

MTE 2320 - Fluid Power Control

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): MTE 1102 or Corequisite below
Corequisite(s): MAT 1140 or higher
Formerly MTE 238 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.

WEL 1025 - Introduction to Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024.
Formerly WEL 125 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.

Infant Toddler Supervisor Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The ECE program prepares you for a career in teaching children (birth to age 5). The program can also prepare you to become an Early Childhood Teacher or director in the field of Early Childhood Education.

Program Description

This program prepares you to become a productive, caring and responsible teacher. Classes emphasize child development skills in the areas of language, social, emotional, cognitive and physical development. Classes also focus on cultural diversity among children. You will become familiar with theories concerning child development and ECE, and you will participate in many group discussions and hands-on activities that you can apply in the preschool classroom. You will learn from qualified faculty members who believe in the success of each ECE student.

Program Requirements

Entrance Requirements:

You should demonstrate an interest in the care and well-being of young children. You must also be free from evidence of illness – mental and physical – and free from personal conduct which may be injurious to children as stated in the Colorado Rules and Regulations for Child Care Centers, section 7.702.51.

You must meet with an ECE faculty advisor before registering for ECE courses.

Note: Students interested in transferring to a baccalaureate program in Early Childhood Education or Elementary Education should refer to the Transfer Degree section.

Total Credits: 12

Certificate Requirements

ECE 1011 - Introduction to Early Childhood Education

Credit(s): 3
Lecture Hour(s): 3
Formerly ECE 101 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 1031 - Guidance Strategies for Young Children

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 103 Provides an exploration of guidance theories, techniques, and practices used to support young

children's ability to learn and engage in prosocial interactions with peers and adults. This course covers factors that influence children's behaviors, as well as aspects of early childhood educator professionalism related to ethical and equitable guidance practice. This course addresses children ages birth through 8 years.

ECE 1111 - Infant and Toddler Theory and Practice

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ECE 1011
Formerly ECE 111 Presents an overview of development and care pertinent to infant and toddler children, ages birth to three years, in early childhood settings. The course includes information on state requirements for regulating health, safety, and nutrition practices in early childhood settings, and on indicators of quality care for infants and toddlers.

ECE 1125 - Intro to Infant/Toddler Lab Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ECE 1111 and ECE 1011
Formerly ECE 112 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.

Intermediate Structural Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Welding program prepares you for a career in construction and manufacturing settings, small job shops, city and government welding centers and related sites. You may also work as a self-employed welder.

Program Description

The Welding AAS degree offers advanced instruction if you have finished the basic welding courses or if you are working at the trade and wish to upgrade your skills. We also give qualification tests if you wish to be become qualified in a welding process.

The Welding Certificate program provides training in the SMAW (Shielded Metal Arc Welding), GTAW (Gas Tungsten Arc Welding), GMAW (Gas Metal Arc Welding) and the Oxyacetylene cutting process. This training is also included in the degree program. This two-semester program stresses print reading and applied metal properties. It prepares you for employment in the industry in the shortest possible time.

Total Credits: 12

Certificate Requirements

WEL 1006 - Blueprint Reading for Welders and Fitters

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): WEL 1001 or WEL 1002
Formerly WEL 106 Covers interpretation and creation of weld symbols and blueprints used in metal fabrication.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

WEL 1025 - Introduction to Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024.
Formerly WEL 125 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 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

Introduction to Agriculture

Please see list of Department Chairs on the Personnel page.

A general program that focuses on modern business and economic principles involved in the organization, operation, and management of agricultural enterprises.

Total Credits: 9

Core Curriculum Requirements (9 credits)

AGB 1002 - Foundations of Agri-Business

Credit(s): 3
Lecture Hour(s): 3
Formerly AGB 102 Focuses on the foundational aspects of the primary agriculture business areas including economics,

management, marketing, sales, and finance in an applied manner. Current events in agriculture are discussed with emphasis on application to agribusiness.

ASC 1100 - Animal Sciences

Credit(s): 3
Lecture Hour(s): 3
Formerly ASC 100 Covers the basic fundamentals of livestock production including the principles of nutrition, reproduction, breeding, genetics, health, and physiology of cattle, sheep, swine, horses, and other farm species. Trends and issues in animal science and animal agriculture are also discussed in this course.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

Introduction to Design Technology

See list of Department Chairs on the Personnel page.

Program Description

This certificate introduces the student to basic design skills. They can choose courses specific to Architectural Design or Manufacturing Design.

Core Requirements (6-7 credits)

AEC 1231 - Residential Construction Drawing

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly AEC 102 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 1200 - Print Reading Residential/Commercial

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly AEC 107 Interpret construction prints and the related documents produced by the residential or commercial architect and used in the construction industry.

OR

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

MAC 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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.

Introduction to Media Communications Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 15

Certificate Requirements

MGD 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50

Formerly MGD 111 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 1012 - Adobe Illustrator I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 112 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 1013 - Adobe InDesign

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 114 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

MGD 2041 - Web Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 241 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 Web sites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

Introductory Structural Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Welding program prepares you for a career in construction and manufacturing settings, small job shops, city and government welding centers and related sites. You may also work as a self-employed welder.

Program Description

The Welding AAS degree offers advanced instruction if you have finished the basic welding courses or if you are working at the trade and wish to upgrade your skills. We also give qualification tests if you wish to be become qualified in a welding process.

The Welding Certificate program provides training in the SMAW (Shielded Metal Arc Welding), GTAW (Gas Tungsten Arc Welding), GMAW (Gas Metal Arc Welding) and the Oxyacetylene cutting process. This training is also included in the degree program. This two-semester program stresses print reading and applied metal properties. It prepares you for employment in the industry in the shortest possible time.

Total Credits: 13

Certificate Requirements

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

WEL 1003 - Basic Shielded Metal Arc I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 103 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX10 electrodes.

WEL 1004 - Basic Shielded Metal Arc II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1003.
Formerly WEL 104 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX18 electrodes.

Law Enforcement Academy Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Law Enforcement program prepares students for careers in law enforcement as a police officers, desk officer, bailiff or corrections officer. Additionally, students could work as criminal investigators, detectives, police agencies, or in correction and judicial facilities.

Program Description

The Law Enforcement program teaches students an in-depth analysis of the three (3) components of the criminal justice system (law enforcement, the judicial system and corrections) with special emphasis on criminology, substantive criminal law, procedural criminal law and constitutional law. It places a strong emphasis on reading and comprehension skills, written and verbal communication skills and empathetic awareness of cultural diversity.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption to complete the Criminal Justice courses. Admission into the Law Enforcement Academy courses requires a student to file an application with the PLEA Department Chair and meet specific guidelines prior to admission into the program (such as state statutory requirements for background checks). You may enroll in PLEA courses only if you are admitted into the program.

Total Credits: 37

Certificate Requirements

LEA 1001 - Basic Police Academy I

Credit(s): 6
Lecture Hour(s): 6
Formerly LEA 101 Conforms to POST (Peace Officer standards and Training) standards and Colorado 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 both a lecture and laboratory mode of learning.

LEA 1002 - Basic Police Academy II

Credit(s): 12
Lecture Hour(s): 12
Formerly LEA 102 Conforms to POST (Peace Officer Standards and Training) 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 1003 - Basic Law Enforcement Academy III

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly LEA 103 Enhances the standards established by the Colorado P.O.S.T. Board and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a Police Officer. Emphasis will be on expanding the Colorado P.O.S.T. curriculum to create a unique learning experience.

LEA 1005 - Basic Law

Credit(s): 8
Lecture Hour(s): 8
Formerly LEA 105 Conforms to the Colorado POST (Peace Officer Standards and Training) 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 1006 - Arrest Control Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 106 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace office. Exploration of the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Explains the continuum of force and de-escalation of force.

LEA 1007 - Law Enforcement Driving

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 107 Exploration of 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 1008 - Firearms

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 108 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. 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 be able to explain the firearms role within the continuum of force.

Law Enforcement, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The Law Enforcement program prepares students for careers in law enforcement as a police officers, desk officer, bailiff or corrections officer. Additionally, students could work as criminal investigators, detectives, police agencies, or in correction and judicial facilities.

Program Description

The Law Enforcement program teaches students an in-depth analysis of the three (3) components of the criminal justice system (law enforcement, the judicial system and corrections) with special emphasis on criminology, substantive criminal law, procedural criminal law and constitutional law. It places a strong emphasis on reading and comprehension skills, written and verbal communication skills and empathetic awareness of cultural diversity.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption to complete the Criminal Justice courses. Admission into the Law Enforcement Academy courses requires a student to file an application with the PLEA Department Chair and meet specific guidelines prior to admission into the program (such as state statutory requirements for background checks). You may enroll in PLEA courses only if you are admitted into the program.

Graduation Requirements:

In addition to program requirements for this program, you must complete ENG 1021, COM 1150, MAT 1140 and six (6) credits of social and behavioral science courses.

Total Credits: 67

Degree Requirements

General Education Requirements (15 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

- Select two courses in Social & Behavior Science **Credit(s): 6**

Related Requirements (15 Credits)

CRJ 1010 - Intro to Criminal Justice: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 110 Introduces the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives, and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1035 - Judicial Function

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 135 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 1045 - Correctional Process

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 145 Examines the history of corrections in America from law enforcement through the administration of justice, probation, prisons, correctional institutions, and parole. This course examines the theories, rationales for punishment, and the political system in which corrections, as a component part of the criminal justice system, needs to operate. The course emphasizes legal, sociological, psychological, and other interdisciplinary approached that effect the operation of a correctional system.

CRJ 2010 - Constitutional Law

Credit(s): 3
Lecture Hour(s): 3

Formerly CRJ 210 Focuses on the powers of government as they are allocated and defined by the United States Constitution. The course includes intensive analysis of United States Supreme Court decisions.

CRJ 2030 - Criminology

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 230 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.

or

CRJ 2080 - Cooperative Education/internship

Credit(s): 3
Internship Hour(s): 9
Formerly CRJ 280 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Common Core Requirements (37 Credits)

LEA 1001 - Basic Police Academy I

Credit(s): 6
Lecture Hour(s): 6
Formerly LEA 101 Conforms to POST (Peace Officer standards and Training) standards and Colorado 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 both a lecture and laboratory mode of learning.

LEA 1002 - Basic Police Academy II

Credit(s): 12
Lecture Hour(s): 12
Formerly LEA 102 Conforms to POST (Peace Officer Standards and Training) 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 1003 - Basic Law Enforcement Academy III

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly LEA 103 Enhances the standards established by the Colorado P.O.S.T. Board and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a Police Officer. Emphasis will be on expanding the Colorado P.O.S.T. curriculum to create a unique learning experience.

LEA 1005 - Basic Law

Credit(s): 8
Lecture Hour(s): 8
Formerly LEA 105 Conforms to the Colorado POST (Peace Officer Standards and Training) 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 1006 - Arrest Control Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 106 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace office. Exploration of the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Explains the continuum of force and de-escalation of force.

LEA 1007 - Law Enforcement Driving

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 107 Exploration of 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 1008 - Firearms

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 108 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. 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 be able to explain the firearms role within the continuum of force.

Leadership Studies Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The AAS and Certificate programs prepare you for entry level positions in marketing, management or sales; they also give you the skills you need to open your own business.

Program Description

Prepares students for lives of learning, leadership, and service; and designed to enhance and explore leadership potential through curricular design that includes academic courses, seminars, and community service opportunities. The Leadership certificate will verify student's leadership education and training for potential transfer colleges and employers. By obtaining a PCC leadership certificate, students should be able to demonstrate the following: 1.) Personal leadership development. 2.) Leadership skills (communication, motivation, team building, etc.). 3.) Critical thinking. 4). Leadership theory. 5). Civic engagement. 6). Appreciation for diversity.

Total Credits: 12

Certificate Requirements

Leadership Certificate Requirements (9 Credits)

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

MAN 2024 - Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 224 Focuses on the leadership skills for contemporary organizations. Covers development and communication a shared vision to motivate and empower employees to manage conflict, to negotiate, and to develop teams.

PSV 2030 - Introduction to Civic Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly PSV 230 Enables the student to develop a critical understanding of public leadership through the study of pertinent models, theories and research.

Elective Courses (3 Credits)

(Select 3 credit hours)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3

Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 2300 - Intercultural Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 220 Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAN 2026 - Principles of Management

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 226 Provides an overview of the principles of management. Emphasis is on the primary functions of planning, organizing, staffing, leading and controlling with a balance between the behavioral and operational approaches.

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological

psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2771 - Psychology of Personality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 265 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 is a statewide Guaranteed Transfer course in the GT-SS3 category GT-SS3

PSY 2773 - Organizational Psychology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 268 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.

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 102 Examines the basic concepts, theories, and principles of sociology, including topics of family, religion, education, politics, the economy, health, demography, the environment and social movements through a local and global lens. Analyzes and interprets socio-historical as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

Library Technician Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The LTN program prepares you for a career in a variety of information environments including academic libraries, public libraries, school media centers, special libraries – corporate, correctional, law and medical – and other information services. In rural settings, the Library/Media Technician manages the library/media center and is the person responsible for providing additional library services, such as maintaining the computerized catalog and library webpage, conducting patron orientation and directing library programs.

Program Description

This program offers instruction in a variety of library functions including collection management (selecting and acquiring materials); cataloging; processing and repair of library materials; circulating and shelving materials; helping patrons with reference, readers' advisory and resource sharing services; and managing a small library or media center. We also train you in the nontechnical skills you need to be a successful library technician: customer service, listening, speaking, writing, attention to detail and working as a member of a team.

Program Requirements

Entrance Requirements:

The LTN program is designed for the student who, because of time or distance constraints, is looking for an online degree. The courses use the Desire2Learn platform.

If you plan to transfer to a bachelor's level program, consult with your advisor to determine the transferability of courses.

Total Credits: 30

Certificate Requirements

General Education Requirements (12 Credits)

- Social and Behavioral Sciences OR Humanities **Credit(s): 3**

Communications (6 Credits)

Select one:

- (ENG 1021 and COM 1150) or COM 1250

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Mathematics (3 Credits)

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

Core Curriculum Requirements (18 Credits)

LTN 1001 - Introduction to Library Services

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 101 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 1010 - Selection and Acquisitions

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 110 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 1015 - Library Circulation

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 115 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 2005 - Introduction to Cataloging & Classification

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 205 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 2010 - Reference Materials

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 210 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 2020 - Library/Media Center Management & Public Relations

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 220 Includes budget preparation, how to work with staff, the public, and administrators, and the use of statistics.

Library Technician, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The LTN program prepares you for a career in a variety of information environments including academic libraries, public libraries, school media centers, special libraries – corporate, correctional, law and medical – and other information services. In rural settings, the Library/Media Technician manages the library/media center and is the person responsible for providing additional library services, such as maintaining the computerized catalog and library webpage, conducting patron orientation and directing library programs.

Program Description

This program offers instruction in a variety of library functions including collection management (selecting and acquiring materials); cataloging; processing and repair of library materials; circulating and shelving materials; helping patrons with reference, readers' advisory and resource sharing services; and managing a small library or media center. We also train you in the nontechnical skills you need to be a successful library technician: customer service, listening, speaking, writing, attention to detail and working as a member of a team.

Program Requirements

Entrance Requirements:

The LTN program is designed for the student who, because of time or distance constraints, is looking for an online degree. The courses use the Desire2Learn platform.

If you plan to transfer to a bachelor's level program, consult with your advisor to determine the transferability of courses.

Total Credits: 60

Degree Requirements

General Education Requirements (33 Credits)

* General Education must total 33 credits.

- English/Speech (Select one) **Credit(s): 6**
    - (ENG 1021 and COM 1150) or COM 1250
- Mathematics **Credit(s): 3**
    - MAT 1140 or higher
- Social and Behavioral Sciences **Credit(s): 12**
- Arts and Humanities **Credit(s): 12**

English/Speech (6 Credits)

Select one:

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Mathematics

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

Core Curriculum Requirements (18 Credits)

LTN 1001 - Introduction to Library Services

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 101 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 1010 - Selection and Acquisitions

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 110 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 1015 - Library Circulation

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 115 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 2005 - Introduction to Cataloging & Classification

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 205 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 2010 - Reference Materials

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 210 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 2020 - Library/Media Center Management & Public Relations

Credit(s): 3
Lecture Hour(s): 3
Formerly LTN 220 Includes budget preparation, how to work with staff, the public, and administrators, and the use of statistics.

Electives Approved by Advisor (9 Credits)

All electives must be approved by the LTN Advisor. Students must take sufficient electives to meet the minimum 60 credit hour requirements for the associate degree.

Local Anesthesia and Nitrous Oxide/Oxygen Sedation Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Dental Hygiene program prepares you for a career in a variety of professional settings. The most familiar setting is the private dental office, where hygienists perform critical services to detect and prevent diseases of the mouth. Beyond the private dental office, you can find employment in nursing homes and long-term care facilities, hospitals, corporate health facilities, school systems and public health clinics. You may also work as an educator or researcher.

Program Description

The AAS Degree prepares you to provide dental hygiene services to patients and educate them in aspects of preventive dentistry. In our on-campus clinic, you will provide preventive and therapeutic services for patients under the supervision of Dental Hygiene faculty.

In the traditional role of dental hygienist, training includes prophylaxis, patient data gathering for dental hygiene diagnosis and treatment planning, fluoride treatment, sealant application, radiographic examination and nutritional counseling. In the expanded role of the dental hygienist, training includes treatment of periodontally-involved patients and treatment of handicapped, institutionalized and other medically compromised patients. You also learn to perform local anesthesia and administer nitrous oxide.

Because of the high level of personal and professional responsibility required of a dental hygienist, you must have integrity, maturity, individual motivation, good interpersonal skills, excellent manual dexterity and a solid science and general studies academic background to be successful in this program. We are firmly committed to fostering your intellectual growth and to developing well-qualified dental hygienists with high professional standards and ethics.

The Mini-Certificate in Local Anesthesia and Nitrous Oxide/Oxygen Sedation provides you with knowledge of the theory and practice of local anesthesia and nitrous oxide/oxygen sedation. This program teaches you to administer local anesthetics and nitrous oxide proficiently and safely. The administration of local anesthesia and nitrous oxide/oxygen sedation may be performed by licensed dental hygienists under the Colorado State Dental Practice Act. You must be currently enrolled in the Dental Hygiene program to enter this program.

Program Requirements

Entrance Requirements:

You must complete a current Dental Hygiene program application and meet all minimum requirements and application timelines. The application is available through the Dental Hygiene program, at the PCC Dental Hygiene website or in Admissions & Records. You should seek advisement from program faculty for assistance with applications, minimum requirements and required general education courses for admissions. In addition, all students entering the program will need a current CPR card good for 2 years.

If you are an AAS Dental Hygiene student, you must complete all General Education/Related Requirements.

Note: All students are accepted provisionally pending completion of a criminal background check. Disclaimer: The Colorado Board of Dental Examiners requires a dental hygienist applying for licensure 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.

Total Credits: 3

Certificate Requirements

DEH 1033 - Local Anesthesia

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 133 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 1038 - Nitrous Oxide/Oxygen Sedation

Credit(s): 1
Lecture Hour(s): 0.80
Clinic Hour(s): 0.40

Prerequisite(s): Acceptance into the Dental Hygiene Program
Formerly DEH 138 Develops a working knowledge of the equipment and methods used to administer nitrous oxide/oxygen sedation in the dental office.

Low Pressure Pipe Welder Mini-Certificate

See list of Department Chairs on the Personnel page.

Program Description

Welders must be highly skilled and knowledgeable in a variety of welding processes to meet the challenges of advanced technology and new materials. Welding is not just a trade; it's a tool for many trades requiring a high level of training and technical knowledge. The Welding Technology program helps students develop skills through classroom studies and hands-on experience under close supervised instruction. Students learn about structural steel fabrication, layout work and pipe welding following detailed blueprints.

Total Credits: 16

Certificate Requirements

Core Requirements (16 Credits)

WEL 2033 - 2G-Horizontal Pipe A.P.I.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1004 or equivalent.
Formerly 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 Petroleum Institute Pipe Code using the SMAW process with E-XX10 type electrodes.

WEL 2034 - 5G-Vertical Down A.P.I.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2033.
Formerly WEL 234 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 2035 - 6G-45 Down A.P.I.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 2034.
Formerly WEL 235 Instructs in safety, theory, and practical applications in joint fit-up, design, and welding pipe in the 6-G 45° down position. This course also teaches welding in accordance with the American Petroleum Institute Pipe Code using the SMAW process with E-XX10 type electrodes.

WEL 2048 - Pipe Layout

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 248 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.

Machining Technology, AAS

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Career Opportunities

The AAS Degree and certificate programs in Machining Technology prepare you to enter the manufacturing world using the latest technology and metalworking skills.

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

The AAS degree provides training in advanced manufacturing using manual and computer-controlled machines. Students will use CAD CAM software to create three-dimensional drawings, solids and surfaces. Students will then utilize geometry to create parts, which are then inspected for industry standard accuracy with top-of-the-line metrology equipment. If completing the AAS degree or currently working in the field, CAD CAM certification and NIMS credentials may be available.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 63

Degree Requirements

General Education Requirements (15 Credits)

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

- Any combination of Arts/Humanities/Social Sci/COM/Science **Credit(s): 5**

Core Curriculum Requirements (48 Credits)

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 1030 - Conventional Lathe Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 130 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 1031 - Milling Machines & Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 131 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 1041 - Advanced Machining Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 141 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 stressed and students will be required to produce parts manufactured by local manufacturing companies with the consideration of ISO quality standards.

MAC 2003 - Introduction to CNC Operations

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 203 Introduces basic writing and editing of CNC programs. G&M codes, math, speeds feeds, production processes including basic process controls, simple fixturing, and documentation associated with manufacturing will be covered.

MAC 2008 - CNC Operations II

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Formerly MAC 208 Further develops skills in writing and editing advanced CNC programs. G&M codes, math, speeds deeds, production processes including multi-part, process controls, fixturing, and documentation associated with manufacturing will be covered.

MAC 2043 - Mastercam

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly MAC 243 Introduces the concepts of creating basic 2D and 3D Mastercam wireframes, building and manipulating surfaces and solids. The practices and techniques of fixture incorporation, tool pathing, and machine code generation will be discussed. Basic user interfaces and custom interface setup will be covered, as well as common file storage.

MAC 2041 - CAD CAM 2D Lab

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly MAC 241 Requires students to produce a variety of lab exercises on robotic machinery in conjunction with MAG 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 2050 - Advanced Inspection Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly MAC 250 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.

EGT 2305 - Geometric Dimension & Tolerance

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CAD 1100 or MAC 1002 or EGT 1101
Formerly EGT 205 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.

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

Machining Technology, Inspection Certificate

See list of Department Chairs on the Personnel page.

Total Credits: 9

Certificate Requirements

MAC 2050 - Advanced Inspection Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly MAC 250 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 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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.

EGT 2305 - Geometric Dimension & Tolerance

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CAD 1100 or MAC 1002 or EGT 1101
Formerly EGT 205 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.

Magnetic Resonance Imaging, BAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The BAS in Radiologic Technology program prepares students for careers in Computed Tomography (CT) or Magnetic Resonance Imaging (MRI), Leadership and Teaching in Medical Imaging.

Program Description

The BAS in Radiologic Technology program teaches students to perform Computed Tomography (CT) exams or Magnetic Resonance Imaging (MRI) exams as well as how to lead or teach others in the Medical Imaging Department. It provides students with an additional imaging modality and prepares them to take on leadership roles in the imaging department in health care facilities.

Program Requirements

Entrance Requirements:

Applicants must hold an associate's degree and be a registered radiologic technologist with the American Registry of Radiologic Technologists (ARRT).

Graduation Requirements:

Must complete 120 credits including didactic and clinical components of the program.

Total Credits: 120

Curriculum Requirements (43 Credits)

First Year-Fall Semester

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

First Year-Spring Semester

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

RTE 3011 - Sectional Anatomy for Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 311 Identifies anatomy in various imaging planes of advanced modalities. Compares normal anatomy with gross pathology on advanced cross-sectional images. Evaluation of anatomy and pathology will include head, spine, thorax, abdomen/pelvis and extremities.

RTE 3012 - IV Certification for Contrast Medium

Credit(s): 1
Lecture Hour(s): 0.50
Clinic Hour(s): 1

Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 312 Prepares the student to perform IV contrast administration including knowledge of arterial and venous anatomy, appropriate puncture sites, necessary equipment and supplies, understanding of different contrast media, injectors and administration safety.

RTE 3021 - Theory and Application of MR Imaging I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 321 Applies the fundamental principles of MRI in order 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.

Summer Semester

RTE 3031 - MRI Protocols and Procedures

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 331 Develops the knowledge necessary to perform procedures for imaging various anatomical structures utilizing MRI. It provides instruction on routine parameter selection, patient positioning, coil selection and application and anatomy and pathologies demonstrated on MR images.

RTE 3081 - Internship: MRI I

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 381 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Second Year-Fall Semester

RTE 4021 - Theory and Application of MR Imaging II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 3021.
Formerly RTE 421 Examines in-depth knowledge of designing MRI pulse sequences, data manipulation, artifacts and quality control and quality assurance procedures. Special consideration will be given to methods to shorten scan time, k-space filling and reconstruction, Fast Fourier Transform and image transfer and storage systems used in healthcare facilities.

RTE 4031 - Advanced MRI Protocols and Procedures

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): RTE 3031.
Formerly RTE 431 Examines specialized advancements in MRI. Emphasis will be placed on the heart and vasculature, functional imaging, contrast agents and their uses, enterography, pelvic run-off and breast imaging.

RTE 4061 - Leadership in Medical Imaging

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): MRI or CT Program Admission.
Formerly RTE 461 Examines concepts and skills needed for leadership roles in Medical Imaging. It prepares the student with communication, time management, supervision, task delegation, conflict management and performance assessment skills.

or

RTE 4062 - Teaching Methodologies in Medical Imaging Education

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): MRI or CT Program Admission.
Formerly RTE 462 Provides a general overview of the concepts and theory of Medical Imaging education. It introduces current theories of teaching adult learners in the Imaging Sciences, objective development of active learning activities, classroom assessment techniques and delivering course content through distance-learning formats.

RTE 4081 - Internship: MRI II

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 3081.

Formerly RTE 481 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Manual Machining Certificate

See list of Department Chairs on the Personnel page.

This is a NIMS Accredited program

Program Description

Students will start their career in Machining Technology by building a strong foundation in machining by learning to use various tools, such as hand tools, manual machines and grinding tools. Students develop introductory skills in print reading. They are also taught how to use CAD CAM software, which enables students to create two-dimensional drawings and gain experience with computer-aided manufacturer software. Learning G&M Code for manual CNC (Computer Numerical Control) programming is a focus, as well as setup and operations of CNC equipment.

Work experience may be converted to college credit through credit-by-portfolio or credit-by-challenge.

Total Credits: 16

Certificate Requirements

MAC 1005 - Introduction to Machining Technology

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 105 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 1030 - Conventional Lathe Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 130 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 1031 - Milling Machines & Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 131 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 1041 - Advanced Machining Operations

Credit(s): 4
Lecture Hour(s): 1.50
Vocational Lab Hour(s): 3.75
Formerly MAC 141 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 stressed and students will be required to produce parts manufactured by local manufacturing companies with the consideration of ISO quality standards.

Manual Transmissions Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 7

Certificate Requirements

ASE 1051 - Automotive Manual Transmission/Transaxles & Clutches I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 151 Focuses on the diagnosis and repair of automotive manual transmissions, transaxles, clutches, and related components. This course meets AST/MAST requirements.

ASE 1052 - Manual Transmission, Transaxles and Clutches II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 152 Focuses on lecture and related laboratory experiences in the diagnosis and repair of automotive differentials, four wheel and all-wheel drive units.

ASE 2053 - Advanced Manual Transmission/Transaxles

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 253 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 2181 - Internship: Basic Heavy Duty and Power Train

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 281 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 ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Mass Communications, AGS (with Transfer Articulation Agreement)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of General Studies degree with an emphasis in Mass Communications prepares you for a career in journalism, radio/TV broadcasting, advertising, public relations or New Media Technology by providing a two-year foundation of courses designed to transfer to four-year colleges and universities.

Program Description

This program teaches you to think critically and develops your skills in news writing, television and radio production, advertising, videography and web design. Courses provide a solid foundation in these areas through a mixture of lecture and hands-on application. A fully equipped video control room and a mobile production truck provide you with multi-camera working classrooms. Several nonlinear editing suites offer you a diversity of experience in the changing field of communication. You will also gain experience in production and digital media through our media lab and the many volunteer opportunities we offer.

Transferability of courses depends upon the courses taken and the receiving institution. The PCC/CSU-Pueblo Transfer Agreement allows the AGS Media Communications graduate to transfer to the Colorado State University-Pueblo Mass Communications Department with a junior standing.

Please see the certificate option - Broadcasting & Production Technology Certificate.

Total Credits: 60

General Education Requirements (35 Credits)

Should be GTPathway courses

Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (3 Credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

or

MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 120 Highlights connections between mathematics and the society in which we live and is intended for liberal arts majors. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1320 - Finite Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 123 Covers topics including functions, matrix algebra, linear programming, and an introduction to probability and counting techniques. Emphasis is on applications. This course may include other topics such as

statistics when time permits. This course is primarily intended for business, life science, or social science majors. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 1400 - Survey of Calculus: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 125 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2431 - Calculus III with Engineering Applications: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2420
Formerly MAT 204 Focuses on the traditional subject matter of multivariable Calculus with an additional emphasis on word problems and problem solving. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals, Stokes', Divergence Theorems and Green's Theorems, and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2520 - Discrete Mathematics: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2410
Formerly MAT 215 Concentrates on formal logic, algorithms, induction proofs, equivalence relations and graphs. This course is designed for mathematics and computer science students. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2561 - Differential Equations with Engineering Applications: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2430 or MAT 2431
Formerly MAT 261 Introduces ordinary differential equations. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms with an additional emphasis on engineering applications and problem solving. Appropriate technology related to the mathematical field may be used as a component of the course. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2560 - Differential Equations: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 2420
Formerly MAT 265 Explores techniques of problem solving and applications. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Physical & Life Sciences (Courses with Required Labs) (8 Credits)

Select two courses from:

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English
Formerly ANT 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1110 - Astronomy I With Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 101 Focuses on the history of astronomy, naked-eye sky observation, tools of the astronomer, contents of the solar system and life in the universe. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly AST 102 Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole,

including cosmology and relativity. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT- SC1 category.

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3

Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and CHE 1011
Formerly CHE 102 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, Intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1005 - Chemistry in Context with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 105 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): CHE 1111 and MAT 1340
Formerly CHE 112 Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, intermolecular forces, and electrochemistry. This course emphasizes problem solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ENV 1111 - Environmental Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly ENV 101 Introduces the basic concepts of ecology and the relationship between environmental problems and biological systems. This course includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. A holistic approach is used when analyzing how the foundations of natural sciences interconnect with the environment. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1011 - Physical Geography: Landforms with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 111 Examines 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. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 112 Introduces the principles of meteorology, climatology, ecology, and regional climate classification. The course investigates the geographic factors which influence climate and ecosystems such as topography, elevation, winds, ocean currents, and latitude. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1111 - Physical Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 111 Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): GEY 1111
Formerly GEY 112 Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

GEY 1135 - Environmental Geology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly GEY 135 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MET 1050 - General Meteorology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly MET 150 Provides an introduction to general meteorology and atmospheric sciences. Includes the composition and structure of the atmosphere and characteristics that affect the atmosphere, such as temperature, pressure, and moisture. Examines the development of weather system, such as storm systems, hurricanes, weather fronts, and cloud development. Stresses the concepts of climatology. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1107 - Energy Science & Technology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): MAT 0300 with a grade of S/C or better.
Formerly PHY 107 Explores the science of energy and energy technologies with a focus on renewable energy resources and clean technologies. The course provides a background in the physics of energy, energy transfer, and the current state of energy technology. Evaluation of the future utilization of renewable technologies is included. Topics may include conservation of energy; mechanical, electrical, heat, and fluid power systems; energy transfer and loss; energy audits; and testing solar collectors and wind generators. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 1340
Formerly PHY 111 The physics of mechanics and requires application of classical physics to both mathematical and conceptual problems. This course includes kinematics in one and two dimensions, Newton's Laws, circular motion, work and energy, impulse and momentum, rotational mechanics, and simple harmonic motion. This is a statewide Guaranteed Transfer course in the GT-SCI category. GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 1111
Formerly PHY 112 The physics of electricity and magnetism and requires application of classical physics to both mathematical and conceptual problems. This course covers Direct Current (DC) circuits involving resistors, capacitors, and batteries. This course also covers traveling and standing waves, electromagnetic waves, and geometric optics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of

classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 155 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College readiness in English and (MAT 1150 or MAT 1220 or higher)
Formerly SCI 156 Examines earth and biological systems, living and non-living environments, through the application of fundamental energy and matter concepts. These systems and concepts will be explored in hands-on laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (9 Credits)

Select three courses from any one category:

Arts and Expression

ART 1110 - Art Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 110 Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1113 - Art History

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 207 Introduces the concepts necessary to understand modern visual art, with an emphasis on world art of the 20th century. This course surveys world art of the 20th century, including Modernism to Post-Modernism. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1020 - Music Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 120 Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western, and non-Western historical style periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1021 - Music History Medieval Thru Classical Period: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 121 Provides an historical survey of Western art music from the Middle Ages into the Classical period, including styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1022 - Music History Early Romantic Period to the Present: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 122 Provides an historical survey of Western art music connecting the classical period to the Romantic period and following to the present. This course includes the study of styles, genres, composers, works, and significant cultural and historical influences upon the repertoire. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

MUS 1025 - History of Jazz: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly MUS 125 Provides an overview of jazz history covering the basic materials of music and the forms, media, genres, and the historical and cultural framework of each style period. This course emphasizes the building of critical listening tools and the development of a jazz music vocabulary. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 1005 - Theatre Appreciation: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 105 Provides an opportunity to discover, analyze, and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism, and theory. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2011 - Development of Theatre Greek-Renaissance: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 211 Surveys the history and development of theatrical practices from Ancient Greece to the Renaissance as well as non-western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2012 - Development of Theatre Restoration to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 212 Surveys the history and development of theatrical practices from Restoration to the present as well as non-Western forms, emphasizing all aspects of performance from period values to analysis of dramatic literature and culture. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

THE 2015 - Playwriting: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly THE 215 Develops playwriting techniques emphasizing elements of dramatic structure, dialogue, styles, creative writing, and theatrical practices. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

Literature and Humanities

HUM 1003 - Introduction to Film Art: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 103 Introduces film terminology and narrative techniques to explore how film conveys meaning and to study the relationships among film form, content, and audience reception. This course emphasizes active viewing,

discussion, and critical analysis of films from different cultures and eras. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT:AH2

HUM 1015 - World Mythology: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 115 Introduces an interdisciplinary approach to world mythology. The course illustrates and connects common themes in mythology to world religion, philosophy, art, literature, music, and contemporary culture using various interpretive methods. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1021 - Humanities: Early Civilization: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 121 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among diverse cultures, including European and non-European, from the prehistoric to the early medieval era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1022 - Humanities: Medieval - Modern: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 122 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the medieval to the early modern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

HUM 1023 - Humanities: Modern World: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly HUM 123 Introduces the interdisciplinary study of ideas that have defined cultures through a survey of the visual, performing, and literary arts, emphasizing connections among global cultures from the European Enlightenment to the postmodern era. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021.
Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2001 - World Literature to 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 201 Examines significant writings in world literature from the ancients to the seventeenth century. It

emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2002 - World Literature After 1600: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 202 Examines significant writings in world literature from the seventeenth century to the present. It emphasizes active reading and understanding of the works and their cultural backgrounds.~~This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2005 - Race. Ethnicity, and Culture in U.S. Literature: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 205 Examines the cultural, historical, and social contexts impacting multiple ethnic American identities through critical reading and analysis. This course focuses on significant works by authors who identify as African American, Native American, Latino/a, Asian American, and other ethnicities. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2011 - American Literature to Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 211 Examines American literary works from pre-European arrival on the continent up to the Civil War, including works from diverse people that contributed to American literature. This course also explores historical and social contexts within various genres. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2012 - American Literature After Civil War: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ENG 1021.
Formerly LIT 212 Examines American literary works from 1865 to the present, distinguishing among literary themes, genres, and schools of thought that illustrate historical and social contexts across a multicultural spectrum. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2025 - Introduction to Shakespeare: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Placement at ENG 1021 level or consent of instructor.
Formerly LIT 225 Explores works by William Shakespeare, focusing on a careful reading of these works as well as an exploration of pertinent contextual and historical information. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

LIT 2046 - Literature of Women: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Formerly LIT 246 Examines the techniques and themes in literature of various genres by and about women by considering what it means for women to be in literature, as characters and also as authors. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

Ways of Thinking

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1014 - Comparative Religions: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 114 Introduces the major religions of the Eastern and Western world. Covers Hinduism, Buddhism, Confucianism, Daoism, Judaism, Christianity, and Islam. Utilizes methods of religious studies to understand the historical development of each religious tradition as well its worldview and teachings. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1015 - World Religions-West: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 115 Introduces students to religions of the Western World: Judaism, Christianity, and Islam. Utilizes the methods of religious studies 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 is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2014 - Philosophy of Religion: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 214 Focuses on the critical analysis and evaluation of the fundamental concepts, ideas, and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of ultimate reality, arguments concerning God`s existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience, and religious diversity. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2018 - Environmental Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 218 Analyzes theories of the value of the natural world. Topics may 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; and the connection between moral and political values and economic policies. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2020 - Philosophy of Death and Dying: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 220 Explores the major philosophical questions surrounding death and dying, the metaphysical arguments for and against the existence of the soul, life after bodily death, the major ethical theories and their relation to issues of physician-assisted suicide, care for the dying, the grieving process, death as expressed in aesthetics and contemporary society, as well as the existential contributions concerning meaning of life and the meaning of death. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Foreign Languages

FRE 2011 - French Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FRE 1012
Formerly FRE 211 Continues the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

FRE 2012 - French Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): FRE 2011
Formerly FRE 212 Continues the development of increased functional proficiency at intermediate mid level in

speaking, aural comprehension, reading, writing, and cultural competency in the French language. This course is conducted predominantly in French. This is a statewide Guaranteed Transfer course in the GT-AH4 category.

GER 2011 - German Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): GER 1012
Formerly GER 211 Continues the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the German language. This course is conducted predominantly in German. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

GER 2012 - German Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): GER 2011
Formerly GER 212 Continues the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the German language. This course is conducted predominantly in German. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

SPA 2011 - Spanish Language III: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): SPA 1012
Formerly SPA 211 Continues Spanish Language II in the development of increased functional proficiency at the intermediate level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

SPA 2012 - Spanish Language IV: GT-AH4

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): SPA 2011
Formerly SPA 212 Continues Spanish Language III in the development of increased functional proficiency at intermediate mid level in speaking, aural comprehension, reading, writing, and cultural competency in the Spanish language. This course is conducted predominantly in Spanish. This is a statewide Guaranteed Transfer course in the GT-AH4 category. GT-AH4

Social and Behavioral Science (9 Credits)

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the

validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Select Three Courses in at Least Two Categories

History

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 101 Explores trends within events, peoples, groups, ideas, and institutions in Western Civilization from antiquity to 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1320 - Western Civ: 1650-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 102 Explores trends within events, peoples, groups, ideas, and institutions in Western civilization since 1650. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1110 - The World: Antiquity-1500: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 111 Explores trends within events, peoples, groups, ideas, and institutions in World History from antiquity to 1500. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This course focuses on common cultural trends. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1120 - The World: 1500-present: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 112 Explores trends within events, peoples, groups, ideas, and institutions in World History since 1500 as well as on common cultural trends. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through the perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 121 Explores trends within events, peoples--including Native American--groups, ideas, and institutions in North America and the United States to Reconstruction. This class focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2135 - Colorado History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 225 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, mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

HIS 2015 - 20th Century World History: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 247 Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions, empires, and nation-states since the late nineteenth century. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1category. GT-HI1

Economic or Political Systems

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate

Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2045 - Environmental Economics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 245 Introduces contemporary environmental issues and policies meant to reduce environmental degradation. It introduces the concept of market failure due to pollution. The course covers government pollution reduction policies for air, water, and natural environments. It also covers analytical tools that are used to analyze the effectiveness of these policies. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 2020 - Introduction to Political Science: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 105 Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments and processes, and international relations. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1025 - American State and Local Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 125 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 is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

Geography

GEO 1005 - World Regional Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 105 Examines the spatial distribution of environmental and societal phenomena in the world's regions. Environmental phenomena includes topography, climate, and natural resources. Societal phenomena includes patterns of population and settlement, religion, ethnicity, language, and economic development. This course also analyzes the characteristics that define world regions and distinguishes them from each other. This course examines the relationships between physical environments and human societies, and examines globalization, emphasizing the geopolitical and economic relationships between more developed and less developed regions. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

GEO 1006 - Human Geography: GT-SS2

Credit(s): 3
Lecture Hour(s): 3
Formerly GEO 106 Introduces geographic perspectives and methods in the study of human societies by examining the spatial characteristics of populations, language, religion, ethnicity, politics, and economics. This course examines the relationships between physical environments and human societies. This is a statewide Guaranteed Transfer course in the GT-SS2 category. GT-SS2

Human Behavior, Culture, or Social Frameworks

ANT 1001 - Cultural Anthropology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 101 Examines the study of human cultural patterns, including communication, economic systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ANT 1003 - Introduction to Archaeology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ANT 107 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, the works of selected archaeologists, and major archaeological theories. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 2300 - Intercultural Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 220 Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

CRJ 1010 - Intro to Criminal Justice: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly CRJ 110 Introduces the basic components of the criminal justice system in the United States. Concepts of crime, crime data, victimization, perspectives, and views of crime, theory, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ETH 2000 - Introduction to Ethnic Studies: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly ETH 200 Introduces the issues of race and ethnicity through the exploration of four major groups in the United States. This course explores issues of race and identity, racism and discrimination, stereotyping, prejudice, segregation, colonialism, integration, and acculturation pertaining to Americans of African, Asian, Latino, and Indigenous descent\, as well as additional ethnic identities. This is a statewide Guaranteed Transfer course in the GT SS3 category. GT-SS3

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2105 - Psychology of Gender: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 205 Examines gender comparisons in work, courtship, family life, and sexual behavior throughout the life span. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2107 - Human Sexuality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 217 Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2222 - Psychology of Death and Dying: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 227 Examines philosophies of life and death emphasizing dying, death, mourning, and the consideration of one's own death. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2331 - Positive Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 231 Focuses on human strengths and explores strengths-based research and concepts of life satisfaction, well-being, happiness, helpfulness, resiliency, post-traumatic growth, and improving emotional, psychological, and social functioning. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is approved as part of the Colorado statewide Guaranteed transfer curriculum: GT: SS3.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2441 - Child Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 238 Focuses on the growth and development of the individual, from conception through childhood,

emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

PSY 2333 - Health Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 240 Focuses on an overview of the scientific study of attitudes, behaviors, and personality variables related to health, illness, and bodily systems. The course emphasizes the interaction of biological, psychological, and social factors that cause illness and influence its treatment and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2771 - Psychology of Personality: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 265 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 is a statewide Guaranteed Transfer course in the GT-SS3 category GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 102 Examines the basic concepts, theories, and principles of sociology, including topics of family, religion, education, politics, the economy, health, demography, the environment and social movements through a local

and global lens. Analyzes and interprets socio-historical as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

SOC 2005 - Sociology of Family Dynamics: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 205 Offers a critical exploration of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations locally and globally. Explores the stability and evolution of the family, along with current trends and a range of family forms. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2007 - Environmental Sociology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 207 Examines how humans' relationship with the environment is mediated by social stratification. Key topic areas include industrial and economic growth versus sustainability, natural resources development and management, cultural values, social movements, and comparative perspectives on people's relationship to the environment. GT-SS3

SOC 2015 - Contemporary Social Problems: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 215 Investigates current social issues that result in societal problems. Focuses on numerous areas including, but not limited to, the loss of civil liberties, concentration of media ownership, gender discrimination, hate crimes, poverty, hunger, environmental degradation, racism and prejudice, as well as social change. Addresses ways to ameliorate these social ills. GT-SS3

SOC 2016 - Sociology of Gender: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 216 Examines major trends and theoretical approaches within the field of sociology of gender including the impact of intersecting social markers such as race, class, sexuality and gender identities. Addresses gender performance, stratification and inequalities in micro and macro settings in the U.S. Focuses on social movements relating to identities and institutional inequalities. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual

identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

SOC 2037 - Sociology of Death and Dying: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 237 Explores the socially constructed nature of how individuals and societies interact with death and dying. Examines how individuals experience death and dying based on their social location. Analyzes diversity in grief practices related to death. GT-SS3

WST 2000 - Introduction to Women's Studies: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly WST 200 Explores the interdisciplinary field of women's studies. This course is an examination of the following topics: the historical basis of gender inequality; the history of social movements for gender equality and women's studies; women's achievements throughout history in various professional and academic fields; women's social, economic, religious, health and political status in the U.S. and around the globe; gender relations; intersectionality; cultural, media and artistic representations of women. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer Courses, GT-SS3.

Core Curriculum Requirements (25 Credits)

JOU 2006 - Intermediate Newswriting and Editing

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): JOU 1005, ENG 1021, or Department Chair Approval
Formerly JOU 206 Presents how to gather information as an investigative reporter through research of local, state and federal government publications, how to cover police beat and city hall, how our courts and regulatory agencies function, and how to cover other challenges as the environment, religion, science, medical, public safety and business.

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 2089 - Capstone

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 289 A demonstrated culmination of learning within a given program of study.

RTV 1000 - Introduction to Electronic Media

Credit(s): 3
Lecture Hour(s): 3
Formerly RTV 100 Focuses on the study of the market demands involving national, local and international uses of electronic media.

Choose 15 credits below

ART 1401 - Digital Photography I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 139 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.

MAR 2020 - Principles of Advertising

Credit(s): 3
Lecture Hour(s): 3
Formerly MAR 220 Examines the principles and practices of advertising and its relationship to business in the promotion of a business or organization. Areas of major emphasis include advertising principles, strategies, media, copy, and ethical considerations.

MGD 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50

Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

RTV 1002 - Beginning Television

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly RTV 102 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, preproduction, and post production.

Mathematics, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science Degree with Designation in Mathematics prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a bachelor's degree in mathematics. Bachelor degree curriculums allow students to prepare for graduate school, teaching careers, or employment in areas that require mathematics, such as actuarial science, computer science, engineering or statistics.

Program Description

The Associate of Science Degree with Designation in Mathematics is designed for students who want to transfer to a four-year college or university to pursue a bachelor's degree in mathematics. Completion of the AS degree completes the first two years of a mathematics bachelor's degree, and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in mathematics.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AS Degree with Designation in Mathematics, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Requirements (39 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (5 Credits)

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (9 Credits)

- Select three GT Pathway courses from any category: (GT-AH1, GT-AH2, GT-AH3, **or** GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathway courses from any category (GT-SS1, GT-SS2, **or** GT-SS3) *

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Courses (16-17 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2430 - Calculus III: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 2420
Formerly MAT 203 Focuses on the traditional subject matter of multivariable Calculus. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

or

MAT 2431 - Calculus III with Engineering Applications: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2420
Formerly MAT 204 Focuses on the traditional subject matter of multivariable Calculus with an additional emphasis on word problems and problem solving. Topics include vectors, vector-valued functions, partial derivatives, analytic geometry, multiple integrals, line integrals, Stokes', Divergence Theorems and Green's Theorems, and applications. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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.

Electives (4-5 Credits)

Determined by transferring institution

Transfer Degrees

** CSU-Fort Collins requires a different computer science course than the community college course. Students should seek advising at CSU-Ft. Collins for information on the appropriate computer science course to take.

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. Mathematics)
- Colorado Mesa University (B.S. Mathematics; Mathematics, Secondary Education or Statistics concentrations)
- Colorado State University-Ft. Collins (B.S. Mathematics)
- Colorado State University-Pueblo (B.A. Mathematics; B.S. Mathematics)
- Fort Lewis College (B.A. Mathematics; Mathematics option)
- Metropolitan State University of Denver (B.A. Mathematics)
- University of Colorado, Boulder (B.A. Mathematics)
- University of Colorado, Colorado Springs (B.A. Mathematics; B.S. Mathematics)
- University of Colorado, Denver (B.S. Mathematics)
- University of Northern Colorado (B.S. Mathematics; Applied Mathematical Sciences or Liberal Arts emphasis)
- Western State Colorado University (B.A. Mathematics)

Med Prep for Nursing Assistant Mini-Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Med Prep program provides students with the opportunity to develop skills and knowledge for health occupations. This program is nine months in length; however, students have the option of taking either one or both semesters.

During the fall semester, students will pursue a common core of instruction. This course is structured to provide the students with a broad academic and vocational foundation in the health care professions. An introduction to the health care professions is provided through field trips, speakers, classroom activities and laboratory experiences. Students will have presentations by medical professionals who are currently working in the field to offer insight into the medical careers available. Students will receive instruction in nurse assisting and will be eligible to take the State Certification test.

The second semester will provide students with career development skills such as resume writing, portfolio building, interviewing techniques and basic knowledge about how to be successful in the professions of health care. Students will also obtain job exploration experience (job shadowing) at several health care agencies in the area. At the end of the semester, students will receive a certificate for Clinical Medical Assistant/Pharmacy Aid.

Total Credits: 14.5

Certificate Requirements

HPR 1000 - Introduction to Health

Credit(s): 3
Lecture Hour(s): 3
Formerly HPR 100 Provides foundational knowledge and skills necessary for careers in health care. This course covers basic health skills such as vital signs, hand washing, and Cardiopulmonary Resuscitation (CPR).

NUA 1001 - Nurse Aide Health Care Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly NUA 101 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 1070 - Nurse Aid Clinical Experience

Credit(s): 1
Clinic Hour(s): 1.5

Formerly NUA 170 Applies knowledge and skill gained in NUA 101 to patient care. Pass/fail grading (F).

Medical Assistant Certificate

See list of Department Chairs on the Personnel page.

Program Description

The Medical Assistant Program will prepare the student to primarily work in the back office of a medical practice, along with some basic front office duties. Students will be taught the clinical tasks of drawing blood, giving injections, performing lab tests, take patient history, and measuring vital signs. The administrative tasks include: scheduling appointments, code medical information, and financial bookkeeping. Students will serve an internship and prepare for a national certification exam to become a Registered Medical Assistant.

Total Credits: 30

Semester 1 Fall: 17

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

MAP 1010 - Medical Office Administration

Credit(s): 4
Lecture Hour(s): 4
Formerly MAP 110 Introduces the administrative duties specifically used in medical offices.

MOT 1025 - Basic Medical Sciences I

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 125 Introduces the anatomy, 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 to the medical office technology personnel.

MOT 1026 - Basic Medical Sciences II

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 133 Introduces the anatomy, physiology, pathophysiology, and drug therapy of the cardiovascular, respiratory, integumentary, and senses systems. The scope of the material is limited for the medical office technology personnel.

MOT 1027 - Basic Medical Sciences III

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 135 Introduces the anatomy, physiology, pathophysiology, and drug therapy of the renal, reproductive, neurological, and endocrine systems. The scope of material is limited for the medical office technology personnel.

MAP 1050 - Pharmacology for Medical Assistants

Credit(s): 3
Lecture Hour(s): 3
Formerly MAP 150 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.

Semester 2 Spring: 13

MAP 2038 - Medical Assisting Laboratory

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 4
Prerequisite(s): Department Chair Approval.
Formerly MAP 138 Introduces basic, routine laboratory skills and techniques for collection, handling, and examination of laboratory specimens often encountered in the ambulatory care setting.

MAP 2040 - Medical Assisting Clinical Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 4
Prerequisite(s): Department Chair Approval.
Formerly MAP 140 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 1083 - Medical Assistant Internship

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): Department Chair Approval.
Formerly MAP 183 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.

MAP 2069 - Review for Medical Assistant National Exam

Credit(s): 1
Lecture Hour(s): 1
Formerly MAP 189 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 Assistant, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Medical Assistant Program will prepare the student to primarily work in the back office of a medical practice, along with some basic front office duties. Students will be taught the clinical tasks of drawing blood, giving injections, performing lab tests, take patient history, and measuring vital signs. The administrative tasks include: scheduling appointments, code medical information, and financial bookkeeping. Students will serve an internship and prepare for a national certification exam to become a Registered Medical Assistant.

Total Credits: 60

General Education Requirements (30 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative,

and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OR

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

OR

- Higher GT level mathematics **Credit(s): 3**

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

OR

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 106 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.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

- Guaranteed Transfer pathway courses **Credit(s): 12**

Core Curriculum: 30

Semester 1 Fall: 17

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

MAP 1010 - Medical Office Administration

Credit(s): 4
Lecture Hour(s): 4
Formerly MAP 110 Introduces the administrative duties specifically used in medical offices.

MOT 1025 - Basic Medical Sciences I

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 125 Introduces the anatomy, 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 to the medical office technology personnel.

MOT 1026 - Basic Medical Sciences II

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 133 Introduces the anatomy, physiology, pathophysiology, and drug therapy of the cardiovascular, respiratory, integumentary, and senses systems. The scope of the material is limited for the medical office technology personnel.

MOT 1027 - Basic Medical Sciences III

Credit(s): 3
Lecture Hour(s): 3
Formerly MOT 135 Introduces the anatomy, physiology, pathophysiology, and drug therapy of the renal, reproductive, neurological, and endocrine systems. The scope of material is limited for the medical office technology personnel.

MAP 1050 - Pharmacology for Medical Assistants

Credit(s): 3
Lecture Hour(s): 3
Formerly MAP 150 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.

Semester 2 Spring: 13

MAP 2038 - Medical Assisting Laboratory

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 4
Prerequisite(s): Department Chair Approval.
Formerly MAP 138 Introduces basic, routine laboratory skills and techniques for collection, handling, and examination of laboratory specimens often encountered in the ambulatory care setting.

MAP 2040 - Medical Assisting Clinical Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 4
Prerequisite(s): Department Chair Approval.
Formerly MAP 140 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 1083 - Medical Assistant Internship

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): Department Chair Approval.
Formerly MAP 183 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.

MAP 2069 - Review for Medical Assistant National Exam

Credit(s): 1
Lecture Hour(s): 1
Formerly MAP 189 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 Sonography, AAS

See list of Department Chairs on the Personnel page.

Program Description

Diagnostic Medical Sonography (DMS) prepares you to use highly complex medical imagine equipment, analyze acquired images for quality, assess patient condition, and apply appropriate techniques of patient care and education. In addition to fostering your intellectual growth, we advise you to exercise good judgment, demonstrate a professional demeanor, display the highest moral and ethical standards, and promote the safety of yourself and your patients.

The Diagnostic Medical Sonography program has a selective admissions process. The program application and requirements are available in the Health & Public Safety office or at Pueblo Community College DMS. Applications are provided during Spring Semester DMS 1001 course. All Health & Public Safety programs have essential functions to help you be successful in the program and career.

All applicants must possess a **two-year health-related (patient care-related) degree or a four-year degree from a regionally accredited institution**. As long as the applicant has one of these degree types and have completed program prerequisite courses, the program is the same and results in an AAS degree.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Total Credits: 70.5

General Education: 17

Fall: 14

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological

psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

Spring: 13

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

RTE 2055 - Multiplanar Sectional Imaging

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): BIO 2101
Formerly RTE 255 Offers advanced knowledge in multi-planar/multi-modality sectional anatomy for medical imaging professionals.

DMS 1001 - Introduction to Sonography

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): BIO 2101 and College Readiness in English
Formerly DMS 101 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.

1 Courses are required to be successfully completed or in progress during spring semester to apply to program

2 If applicant holds a 2-year Health Degree—Please see Department Chair

Core Curriculum: 48.5

First Fall: 11.5

DMS 2201 - OB/GYN Ultrasound I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Program admission and DMS 1001.
Formerly DMS 221 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 2101 - Abdominal Ultrasound I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Program admission and DMS 1001.
Formerly DMS 231 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 2001 - Ultrasound Physics I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Program admission and DMS 1001
Formerly DMS 241 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 2111 - Ultrasound Scanning Lab

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): Program admission. Enrollment in a DMS Program.
Formerly DMS 244 Prepares the general sonography student for an ultrasound internship with an emphasis on abdominal, superficial structure, gynecological and obstetrical scanning. Ergonomics, applied instrumentation, image optimization, and history integration will be covered as well.

DMS 2080 - Clinical Observation

Credit(s): 2.50
Internship Hour(s): 7.50
Prerequisite(s): BIO 2101, BIO 2102, RTE 2055.
Formerly DMS 280 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.

First Spring: 14

DMS 2202 - OB/GYN Ultrasound II

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2101, DMS 2001, DMS 2081.
Formerly DMS 222 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 2102 - Abdominal Ultrasound II

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2001, DMS 2081.
Formerly DMS 232 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 2002 - Ultrasound Physics II

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2101, DMS 2001, DMS 2082.
Formerly DMS 242 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 2081 - Clinical Internship I

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): DMS 2111 , DMS 2080.
Formerly DMS 281 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Summer: 12

DMS 2100 - Small Parts Ultrasound

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2101, DMS 2001, DMS 2081.
Formerly DMS 205 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 2400 - Vascular Ultrasound

Credit(s): 2
Lecture Hour(s): 1
Clinic Hour(s): 2

Prerequisite(s): DMS 2201, DMS 2101, DMS 2001, DMS 2081.
Formerly DMS 206 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 2082 - Clinical Internship II

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): DMS 2081.
Formerly DMS 282 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Second Fall: 11

DMS 2083 - Clinical Internship III

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): DMS 2082.
Formerly DMS 283 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

DMS 2089 - Ultrasound Capstone

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): DMS 2082.
Formerly DMS 289 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Mental Health Aide

See list of Department Chairs on the Personnel page.

Program Description

The Mental Health Aide certificate is an option for those who are interested in human behavior, especially in clinical or health-related settings. During the program, students will study behavioral health concepts related to addiction and substance abuse, counseling, and group dynamics. The courses for this certificate may be applied towards the Behavioral Health Addiction Recovery AAS degree. If you wish to pursue a bachelor's degree after earning your AAS, you can take advantage of a smooth transfer to UCCS for a BA in Human Services or CSU Pueblo for a BAS in Health Science and Administration.

Career Information

A Mental Health Aide is a professional who works with people who have disabilities or problems with behavioral and learning impairments, in a variety of settings, including but not limited to hospitals, and correctional, residential, and outpatient facilities.

Total credits: 17

HPR 1000 - Introduction to Health

Credit(s): 3
Lecture Hour(s): 3
Formerly HPR 100 Provides foundational knowledge and skills necessary for careers in health care. This course covers basic health skills such as vital signs, hand washing, and Cardiopulmonary Resuscitation (CPR).

BEH 2030 - Applied Therapeutic Communication Skills

Credit(s): 3
Lecture Hour(s): 3

Provides effective communication techniques in behavioral health settings to forge meaningful connections with clients and provide support and guidance on their journey towards improved mental health and well-being. The course focuses on establishing rapport, demonstrating empathy, and facilitation of meaningful dialogues with clients across diverse populations, settings, and presenting concerns through experiential learning and self-reflection.

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

CSL 2046 - Ethical Practice in Addiction Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 245 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 course covers the Colorado Mental Health Practice Act and introduce the regulatory system and the role of Departmental of Regulatory Agencies (DORA) and Division of Behavioral Health (DBH) in the development and credentialing of the addiction counselor. Emphasis on developing ethical decision-making skills, knowledge of confidentiality and the prohibited activities in the Mental Health Practice Act become familiar with the National Association for Alcoholism and Drug Abuse Counselors (NAADAC) Code of Ethics and acquire the tools for ethical and legal practice.

CSL 2068 - Addictions Counseling Skills

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly CSL 268 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 2065 - Culturally Informed Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 265 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 2050 - Motivational Interviewing I

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068

Formerly CSL 250 Provides the opportunity for students to learn both the model of Motivational Interviewing as well as the underlying Stages of Development model. Discussion of the populations of clients where these models have proven most effective will be discussed. Student opportunity for skills practice during class that includes skill sets specific to each stage of client readiness will be used. Presentation of assessment instruments to evaluate client readiness for change.

CSL 2054 - Trauma Informed Care

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 254 Covers the concept of trauma?informed care, an approach being adopted within human services based upon an increased awareness of the ways trauma impacts functioning. Course will define what trauma informed care is and ways a traditional treatment setting can be modified to increase the sense of safety experienced by clients. Participants will learn how to incorporate trauma?informed practices into treatment with diverse populations, such as military veterans, women, and people with co?occurring disorders.

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 106 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.

1 Indicates guaranteed transfer course (GT)

2 Indicates program core courses

3 Requires department approval

4 CAT courses

Mental Health Support Specialist

See list of Department Chairs on the Personnel page.

Program Description

The Medical Health Support Specialist certificate is an option for those who are interested in human behavior, especially in clinical or health-related settings. During the program, students will study behavioral health concepts related to addiction and substance abuse, counseling, and group dynamics. The courses for this certificate may be applied towards the Behavioral Health Addiction Recovery AAS degree. If you wish to pursue a bachelor's degree after earning your AAS, you can take advantage of a smooth transfer to UCCS for a BA in Human Services or CSU Pueblo for a BAS in Health Science and Administration.

Career Information

A Medical Health Support Specialist is a professional who works with people who have disabilities or problems with behavior and learning impairment in a variety of settings ranging from residential to outpatient, including but not limited to department of corrections, youth residential facilities, hospitals and outpatient facilities.

Career opportunities include:

- Case manager
- Peer support worker
- Community health worker
- Family support worker
- Respite care worker

Total Credits: 33

Fall -- 17

HPR 1000 - Introduction to Health

Credit(s): 3
Lecture Hour(s): 3
Formerly HPR 100 Provides foundational knowledge and skills necessary for careers in health care. This course covers basic health skills such as vital signs, hand washing, and Cardiopulmonary Resuscitation (CPR).

BEH 2030 - Applied Therapeutic Communication Skills

Credit(s): 3
Lecture Hour(s): 3
Provides effective communication techniques in behavioral health settings to forge meaningful connections with clients and provide support and guidance on their journey towards improved mental health and well-being. The course focuses on establishing rapport, demonstrating empathy, and facilitation of meaningful dialogues with clients across diverse populations, settings, and presenting concerns through experiential learning and self-reflection.

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

CSL 2046 - Ethical Practice in Addiction Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 245 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 course covers the Colorado Mental Health Practice Act and introduce the regulatory system and the role of Departmental of Regulatory Agencies (DORA) and Division of Behavioral Health (DBH) in the development and credentialing of the addiction counselor. Emphasis on developing ethical decision-making skills, knowledge of confidentiality and the prohibited activities in the Mental Health Practice Act become familiar with the National Association for Alcoholism and Drug Abuse Counselors (NAADAC) Code of Ethics and acquire the tools for ethical and legal practice.

CSL 2068 - Addictions Counseling Skills

Credit(s): 1.50
Lecture Hour(s): 1.50

Formerly CSL 268 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 2065 - Culturally Informed Treatment

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 265 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 2050 - Motivational Interviewing I

Credit(s): 1.5
Lecture Hour(s): 1.5
Prerequisite(s): CSL 2068
Formerly CSL 250 Provides the opportunity for students to learn both the model of Motivational Interviewing as well as the underlying Stages of Development model. Discussion of the populations of clients where these models have proven most effective will be discussed. Student opportunity for skills practice during class that includes skill sets specific to each stage of client readiness will be used. Presentation of assessment instruments to evaluate client readiness for change.

CSL 2054 - Trauma Informed Care

Credit(s): 1
Lecture Hour(s): 1
Formerly CSL 254 Covers the concept of trauma?informed care, an approach being adopted within human services based upon an increased awareness of the ways trauma impacts functioning. Course will define what trauma informed care is and ways a traditional treatment setting can be modified to increase the sense of safety experienced by clients. Participants will learn how to incorporate trauma?informed practices into treatment with diverse populations, such as military veterans, women, and people with co?occurring disorders.

HPR 1008 - Law & Ethics for Health Professions

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 106 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.

Spring -- 16

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PTE 1020 - Application of Behavioral Health Care & Wellness

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Formerly PTE 120 Explores basic etiology, symptoms, and interventions for common behavioral and mental health disorders. Provides the opportunity for students to experience the mileu of a behavioral health care setting while providing basic care to clients experiencing common behavioral and mental health issues.

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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.

CSL 2059 - Advanced Professional and Ethical Practice

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): CSL 2046
Formerly CSL 259 Addresses organizational ethics and practices, individual provider ethics and practices, and guidelines for setting up a private practice. Topics will include Office of Behavioral Health (OBH) licensing rules; OBH behavioral health rules and regulations; practice standards and guidelines; Department of Regulatory Agencies (DORA) and the Mental Health Practice Act; the purpose of and the need for written policies and procedures; professional competencies, boundaries and ethical relationships; reporting violations; employee drug testing; liability insurance; clinical versus administrative supervision; the ethical delivery of culturally-responsive care and trauma-informed care; and the need for professional self-care plan. This course will build on Ethical Practice in Addiction Treatment course.

SOC 2018 - Sociology of Diversity: GT-SS3

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly SOC 218 Explores differences based on race, ethnicity, social class, gender, age, ability status, and sexual identity. Critically examines the dynamics of intergroup relations and how social construction of these differences can lead to patterns of prejudice, discrimination, and inequality nationally and globally. GT-SS3

1 Indicates guarantee transfer course (G)

2 Indicates program core courses

3 Requires department approval

4 CAT courses

5 CAS courses

MGD Video Production

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 18

Certificate Requirements

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications, conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

MGD 2064 - Digital Video Editing II

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): MGD 1064
Formerly MGD 264 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.

RTV 1002 - Beginning Television

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly RTV 102 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, preproduction, and post production.

RTV 1005 - Basic Video Production

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): RTV 1002.
Formerly RTV 208 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.

Nail Technician

See list of Department Chairs on the Personnel page.

Career Opportunities

The Cosmetology program prepares students for careers in cosmetology, hairstyling, esthetics (facial care) and manicure (nail care). Students will receive the specialized training necessary to be prepared for a successful career with limitless opportunities for both men and women. Students learn the skills to keep pace with the fashion world and stand ready to meet the constantly changing demands of one of today's largest-growing service industries. Those opportunities can provide both part-time and full-time employment in specialty areas.

Program Description

The Cosmetology program teaches students job entry skills, customer communication and shop procedures. Instruction includes professional ethics, bacteriology, shampoo and rinses, color theory, hair coloring techniques, permanent waving, hairstyling, hair cutting, manicures, pedicures, facials, makeup, OSHA regulations, sanitation, safety and Colorado laws. Clinical practice involves working on the public under supervision and parallels, as close as possible, actual shop procedures in order to prepare students for working in the field.

- Manicurist certificate – This certificate program provides training in nail care. Instruction is provided in manicuring, pedicure, nail design extensions and nail artistry.

Total Credits: 20

Certificate Requirements

Core Requirements (20 Credits)

COS 1050 - Laws, Rules and Regulations

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 150 This course covers laws, rules, and regulations governing the beauty industry in Colorado and accountability for the student, licensed individual, salons, and school owners.

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

Credit(s): 1
Lecture Hour(s): 1
Formerly COS 250 This course covers salon management business practices and the knowledge and skills necessary to build a successful business. Topics covered in this course include: basic business management, interpersonal skills, basic techniques in salesmanship and customer services, job readiness skills, and professional ethics.

NAT 1008 - Introduction to Manicures, Pedicures, and Artificial Nails

Credit(s): 3
Clinic Hour(s): 6

Formerly NAT 108 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 1010 - Introduction to Nail Care

Credit(s): 3
Clinic Hour(s): 6

Formerly NAT 110 This course covers 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 1011 - Intermediate I Nail Care

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 111 This course covers 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 aspects of manicures, pedicures, and nail art is taught.

NAT 1058 - Intermediate Manicuring, Pedicures, and Artificial Nails

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 158 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 1059 - Intermediate Manicuring/Pedicures/Artificial Nails II

Credit(s): 2
Clinic Hour(s): 4

Formerly NAT 159 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 2008 - Advanced Manicuring/Pedicures/Artificial Nails

Credit(s): 4
Clinic Hour(s): 8

Formerly NAT 208 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 2010 - Advanced Nail Care

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): NAT 2011.
Formerly NAT 210 This course covers advanced theory and practical application dealing with different types of manicures, pedicures, massage techniques, and nail art. Topics included in this course are: practical application of procedures, products, nails shapes and maintenance of the natural nails. Course will cover client education on 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.

Nurse Aide

See list of Department Chairs on the Personnel page.

Program Description

The Nurse Aide (NUA) program teaches students the basic skills and methods needed to help hospital clients.

Students will also learn skills to help long-term care residents, and home health care clients with their daily living activities.

The NUA program has a selective admissions process. The program application and requirements are available in the Nursing Department front office or at Pueblo Community College NUA at any time. All Nursing and Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

Nurse Aides work in Hospitals, Skilled Nursing Facilities, Assisted Living and home health care.

Total Credits: 5

Certificate Requirements

NUA 1001 - Nurse Aide Health Care Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly NUA 101 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 1070 - Nurse Aid Clinical Experience

Credit(s): 1
Clinic Hour(s): 1.5

Formerly NUA 170 Applies knowledge and skill gained in NUA 101 to patient care. Pass/fail grading (F).

Nursing, LPN to ADN, AAS

See list of Department Chairs on the Personnel page.

Program Description

The LPN-ADN program teaches you skills of direct patient care and critical thinking in the role of a registered nurse that you can apply in any healthcare setting. It offers theoretical and applied instruction in classrooms, simulated laboratories, and clinical settings. It integrates education in adult, gerontological, obstetric, pediatric, and psychiatric-mental health nursing. Your clinical learning will take place in diverse types of institutions.

The Nursing program has a selective and limited admission policy. The application is available online at Pueblo Community College Nursing from August 1, 2025 – September 17, 2025 (date tentative). **Third Wednesday in September annually**

All Health Professions programs have essential functions to help you be successful in the program and career. Applicants must have a current Colorado LPN license in good standing. PCC will accept a block transfer of up to 21 credits. Official transcripts from the student's LPN program and proof of LPN licensure are required for admission to this program. PCC will accept a block transfer of up to 24 PLA credits.

In progress grades will be accepted, however, course must show in progress at time of application and be completed in Fall semester. It is the applicant's responsibility to submit final spring semester course grade(s) as soon as possible to the admission committee for consideration**.**

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The LPN-ADN program prepares you to provide safe, therapeutic, and competent nursing care in hospitals and other healthcare settings.

Total Credits: 71.5

General Education and Program Prerequisites

First (11 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Second (12 credits)

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated

homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

1 Course must be completed within 10 years of entrance into the program

2 The 10-year science requirement will not apply to LPNs with 2000 hours worked in the past two (2) years

Program Course Schedule

Apply to the Program – **October 1 to November 13** for spring admission

Application is online at Pueblo Community College Nursing

Accepted applicants must have a current Colorado LPN license in good standing and 21 credits will be transcribed as prior learning credits to complete this degree.

Credits received for Practical Nursing License: 24

Spring (9 credits)

NUR 2012 - Pharmacology II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing program and successful completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 2011 or permission of the program director.
Formerly NUR 212 Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence- based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

NUR 2011 - Psychiatric-Mental Health Nursing

Credit(s): 4
Lecture Hour(s): 2.70
Clinic Hour(s): 3.90

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of program director.
Formerly NUR 211 Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders.

Summer (6.5 credits)

NUR 2006 - Advanced Concepts of Medical-Surgical Nursing I

Credit(s): 6.50
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 9

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of the program director.
Formerly NUR 206 Builds on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse, high acuity medical surgical adult patients. The course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse. The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

Fall (9 credits)

NUR 2016 - Advanced Concepts of Medical Surgical Nursing II

Credit(s): 5
Lecture Hour(s): 2.30
Clinic Hour(s): 8.10

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2006 and NUR 2012 or permission of the program director.
Formerly NUR 216 Continues to build on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical surgical conditions. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse in high acuity settings. The application of knowledge and skills occurs in a variety of clinical settings.

NUR 2030 - Transition to Professional Nursing Practice

Credit(s): 4
Lecture Hour(s): 1.60
Clinic Hour(s): 7.20

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2016 or permission of the program director.
Formerly NUR 230 Provides an integrative experience applying all dimensions of the professional nurse when caring for diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed in this seminar and practice capstone course. Leadership and the management of multiple patients are emphasized. The application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

Occupational Therapy Assistant, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The OTA Program prepares you for a career in helping others improve their quality of life. You will use rehabilitative activities and exercises to help clients of all ages overcome physical, emotional, mental and/or social challenges and maximize one's independence in their activities of daily living. You can work in hospitals, schools, mental health centers, skilled nursing facilities and in the community. PCC graduates hold positions throughout Colorado and in many different states. The US Department of Labor projects that this will be one of the fastest-growing careers in the foreseeable future.

Program Description

This program teaches you to work under the supervision of a registered occupational therapist to assess clients of all ages, design individual rehabilitative programs, create goals and help clients meet their goals while monitoring their progress.

The program consists of 18 months of academic preparation and 16 weeks of fieldwork prior to graduation. When you graduate from the program, you are eligible to take the national certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT). In addition, Colorado requires licensure through the Colorado Department of Regulatory Agencies (DORA).

Program Requirements

Entrance Requirements:

The OTA program has a selective admissions policy due to a limited number of fieldwork sites. You must submit a completed application packet, available through the Health and Public Safety office or on the Pueblo Community College's OTA website (available Nov. 1-March 1). You must have completed all basic skills requirements to perform at a college level in Reading, Math and English. You must also have a cumulative 2.5 GPA in college courses or on high school transcripts if no college courses have been taken. In addition, you must have vision, hearing, tactile sensation, gross and fine motor strength and coordination, memory, critical thinking and interpersonal skills adequate to allow effective communication, ensure safety of self and others, document accurately, and provide effective assessment and treatment in order to meet facility standards.

The OTA Program is primarily an in-person program and requires one to bring their own computer device to campus for instructional purposes. Please refer to this link for further information: https://www.pueblocc.edu/IT

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for the NBCOT certification exam. Contact NBCOT at 301.990.7979 or www.nbcot.org for an Early Determination Review.

Total Credits: 69

Degree Requirements

Note: All courses other than OTA may be taken prior to admission to the program.

Semester 1 — Fall

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

or

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

OTA 1000 - Introduction to Occupational Therapy

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Program admission or department approval
Formerly OTA 100 Explores career options, the history and philosophy of occupational therapy. This course identifies occupational therapy in relation to health and wellness as well as the roles between inter- and intra-professionals. This course discusses the ethical and legal implications of health care and explores basic sociological issues.

OTA 1005 - Occupational Disruption and Activity Analysis

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): Admission into the OTA program.
Formerly OTA 105 Explores the diseases and aspects of health and wellness common to occupational therapy intervention. This course explores occupational disruption and provides insight to various treatment methods and techniques as well as applying activity and task analysis.

OTA 1006 - Basic Occupational Therapy Frames of Reference and Documentation

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the OTA program.
Formerly OTA 106 Identifies common types of occupational therapy documentation and introduces basic documentation skills. This course explores models of practice, frames of reference, occupational therapy theories, along with the implications to occupational therapy practice and treatment interventions.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Semester 2 — Spring

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

or

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OTA 1021 - Assessing Movement Through Occupation

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): OTA 1005, BIO 1006 or BIO 2101
Formerly OTA 121 Introduces the effect of performance skills on occupational performance through assessments. This course explores muscle movement, body mechanics, transfers, range of motion, and manual muscle testing.

OTA 1022 - Origins of Occupation and Performance from the Neonate to Adulthood

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the OTA program.
Formerly OTA 122 Explores the impact of environment, community, and various contexts on the client. This course focuses on stages of development from neonate through middle age, along with influence of the Occupational Therapy Framework on an individual.

OTA 1025 - Basic Occupational Therapy Application to Mental Health

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1005, OTA 1006, PSY 1001 or PSY 1002 or PSY 2440
Formerly OTA 125 Identifies common signs and symptoms of mental illness affecting health and wellness. This course includes methods of screening and various occupational therapy techniques to assess and treat occupational disruption within a variety of contexts. This course embeds a level I psychosocial fieldwork experience.

OTA 1031 - Geriatric Concerns, Diseases and Treatment Techniques

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1005 and OTA 1006.
Formerly OTA 131 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.

Semester 3 — Summer

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

OTA 1081 - Internship

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1031.
Formerly OTA 181 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 2017 - Occupational Therapy Rehabilitation Techniques

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): OTA 1021
Formerly OTA 217 Introduces treatment interventions and techniques common practiced to treat occupational disruption. This course emphasizes the health and wellness of clients using adaptive equipment, assistive devices, areas of occupation, and physical disability assessments that can assist in rehabilitation.

Semester 4 — Fall

- Humanities **Credit(s): 3**

or

- Social Behavioral Science **Credit(s): 3**

OTA 1082 - Internship

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 2018
Formerly OTA 182 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 1083 - Internship

Credit(s): 1
Vocational Lab Hour(s): 1.50
Corequisite(s): OTA 2021.
Formerly OTA 183 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 2016 - OT Application to Neurological Impairments

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1021.
Formerly OTA 216 Introduces skills necessary to work with diverse populations of individuals with varying neurological abilities. This course covers client-centered assessments, treatment interventions, and discharge planning.

OTA 2018 - Occupational Therapy Application to Adult Physical Disabilities

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): OTA 1021.
Formerly OTA 218 Introduces skills necessary for the selection and implementation of interventions common to physical disability diagnoses. This course emphasizes the importance of health and wellness and the consequences of occupational disruption.

OTA 2021 - Pediatric Concerns, Diseases, Disabilities, and Treatment

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 1021 and OTA 1022.
Formerly OTA 221 Introduces skills necessary to select interventions for pediatric populations with common diseases and disabilities. This course explores the impact of environment, culture, and community on health and wellness.

OTA 2035 - Professional Management for the OTA

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the OTA program.
Formerly OTA 235 Introduces basic management skills for occupational therapy assistants. This course explores the role of occupational therapy assistants within research, common professional responsibilities, and the value of lifelong learning.

Semester 5 — Spring

*OTA 2080 AND OTA 2081 must be completed within 18 months of the didactic coursework.

OTA 2078 - OTA Seminar

Credit(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): OTA 2080 or OTA 2081.
Formerly OTA 278 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 2080 - Internship

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): All OTA courses except OTA 2078 and OTA 2081.
Formerly OTA 280 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OTA 2081 - Internship

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): All OTA courses except OTA 2078 and OTA 2080.
Formerly OTA 281 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

Office Professional

See list of Department Chairs on the Personnel page.

Program Description

Prepares students for a career as an office professional in a variety of fields and industries. You will learn state-of-the-art technology, develop computerized or payroll skills, learn top-notch interpersonal (or group) communication skills and/or human resource management skills, develop a strong business understanding and report writing skills, and learn

to solve problems creatively. As a student preparing to enter the workforce, there is the opportunity to gain relevant experience through internships or enhance your knowledge of personal finance.

Total Credits: 24

Certificate Requirements

ACC 1025 - Computerized Accounting

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 125 Introduces the capabilities of computer applications in accounting. Includes solving accounting problems of a financial nature and hardware and software controls.

OR

ACC 1038 - Payroll and Sales Tax

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): ACC 1001 or ACC 1011 or ACC 1021
Formerly ACC 138 Introduces laws pertaining to payroll and sales taxes including record keeping rules; preparation of various federal, state and local forms for reporting payroll and sales taxes; and computerized payroll procedures.

ACC 1035 - Spreadsheet Applications for Accounting

Credit(s): 3
Lecture Hour(s): 3
Corequisite(s): (ACC 1001 or ACC 1011 or ACC 1021) and (CIS 1018 or CIS 1055)
Formerly ACC 135 Introduces spreadsheets as an accounting tool in the application of fundamental accounting concepts, problem-solving, and decision-making skills.

BUS 1015 - Introduction to Business

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 115 Introduces the application of fundamental business principles to local, national, and international forums. This course examines the relationship of economic systems, governance, regulations, and law upon business operations. It surveys the concepts of career development, business ownership, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

BUS 2017 - Business Communication & Report Writing

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 217 Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. This course includes the fundamentals of business communication and an introduction to international communication.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

BTE 2087 - Cooperative Education/Internship

Credit(s): 0.50-6
Cooperative Education Hour(s): 0.75-9
Formerly BTE 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

OR

BUS 1016 - Personal Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly BUS 116 Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

This course is restricted. For exemptions or required basic skills assessment information, please see the Basic Skills Assessment page.

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

OR

MAN 2000 - Human Resource Management I

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 200 Provides an overview of the contemporary issues, theories, and principles used to effectively manage human resources. Topics covered include job analysis and design, talent acquisition and retention, planning and recruiting human resources, selecting employees, job placement, employee training and performance management, selecting employees, compensation and benefits, and retaining employees.

COM 2220 - Group Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 217 Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Paramedic Option Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The EMS program prepares you for a career in the pre-hospital health care field as an emergency medical care provider at the EMT, Advanced EMT or Paramedic level. Career opportunities include providing patient care while working for an ambulance agency, fire service, hospital or other health care facility. Additional opportunities are in such areas as tactical EMS, critical care transport and ski patrol. If you graduate with an AAS degree you have additional opportunities in administration and management in the pre-hospital field. PCC also offers a Bachelor's degree in Advanced Paramedic Practice to advance your scope into critical care and community paramedic.

Program Description

This program teaches you the knowledge and skills needed for scene management, emergency patient care and transport. This includes scene safety, patient assessment and treatment, medication administration, documentation and patient transport. Upon successful completion of the program, you may take the National Registry exam and, upon passing the exam, you may apply for Colorado State Certification at your level of training.

Program Requirements

Entrance Requirements:

To enroll in the EMT, AEMT or Paramedic programs, you must be at least 18 years of age, have all current immunizations and be able to meet the requirements of the PCC EMS Common Functional Abilities Standard. For enrollment into the Paramedic programs, you must have a current Colorado EMT certification, an EMT IV endorsement, successfully complete all prescreening examinations and prerequisites, and obtain department approval for enrollment into these programs.

The EMS Department is offering an EMT-Intermediate to Paramedic Bridge course for those who are EMT-Intermediates. To qualify for this program you must be an EMT-I99, be eligible for state certification, and pass an EMT-I prescreening exam. For more information on prerequisites and classes, please call the EMS Department.

Total Credits: 49

Certificate Requirements

General Education Requirements (4 Credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Core Curriculum Requirements

EMS 2025 - Fundamentals of Paramedic Practice

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): BIO 1006 or BIO 2102
Formerly EMS 225 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 2026 - Fundamentals of Paramedic Practice - Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 226 Teaches the skills necessary for the paramedic to apply professional behavior, medical ethics, legal issues, patient assessment, therapeutic communication, clinical decision making, and airway management. Serves as the companion course to Fundamentals of Paramedic Practice.

EMS 2027 - Paramedic Special Considerations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): EMS 2025
Formerly EMS 227 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 2028 - Paramedic Special Considerations Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 228 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 2029 - Paramedic Pharmacology

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 2025
Formerly EMS 229 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 2030 - Paramedic Pharmacology Lab

Credit(s): 2
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 2

Prerequisite(s): EMS 2025
Formerly EMS 230 Teaches the skills necessary for the paramedic to safely and effectively administer emergency medications. Serves as the companion course to Paramedic Pharmacology.

EMS 2031 - Paramedic Cardiology

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): EMS 2025
Formerly EMS 231 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 2032 - Paramedic Cardiology Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 232 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 2033 - Paramedic Medical Emergencies

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): EMS 2025
Formerly EMS 233 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 2034 - Paramedic Medical Emergencies Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025
Formerly EMS 234 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 2035 - Paramedic Trauma Emergencies

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101, current Colorado Certification as an EMT with IV endorsement or higher and acceptance into the Paramedic Education Program.
Formerly EMS 235 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 2036 - Paramedic Trauma Emergencies Lab

Credit(s): 1
Vocational Lab Hour(s): 0.75
Clinic Hour(s): 1

Prerequisite(s): EMS 2025

Formerly EMS 236 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 2037 - Paramedic Internship Preparatory

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 2025
Formerly EMS 237 Reviews concepts and techniques used in the prehospital setting.

EMS 2080 - Paramedic Internship I

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): EMS 2025
Formerly EMS 280 Serves as the preceptor/internship program for paramedic students.

EMS 2081 - Paramedic Internship II

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): EMS 2025
Formerly EMS 281 Serves as the continuation of EMS 280, preceptor program for paramedic students.

Paramedic Prep

See list of Department Chairs on the Personnel page.

This program prepares students with the knowledge and skills needed for scene management, emergency patient care and transport. This includes scene safety, patient assessment and treatment, medication administration, documentation and patient transport. Upon successful completion of the program, students take the National Registry exam, and upon passing the exam, you may apply for Colorado State Certification at your level of training.

The Emergency Medical Services (EMS) program has a selective admissions process. The program application and requirements are available in the Health & Public Safety office or at Pueblo Community College EMT. All Health & Public Safety programs have essential functions you must be able to perform for you to be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for certification exams.

Prerequisites for Program Admissions

Student must hold a current EMT certification in Colorado. Student must have a Health Care Professional CPR card and successfully completed CCR 092 or qualifying assessment scores. If you hold a current state EMT certification the BIO 111 prerequisite to BIO 201/202 can be waived.

Total Credits: 18

General Education Courses (8 credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Program Schedule (10 credits)

EMS 1125 - AEMT Fundamentals

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): College readiness in English
Formerly EMS 131 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 1127 - AEMT Special Considerations

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): EMS 1125
Formerly EMS 127 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 1133 - AEMT Medical Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 133 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 1135 - AEMT Trauma Emergencies

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): EMS 1125
Formerly EMS 135 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 1071 - AEMT Clinical Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): EMS 1125
Formerly EMS 171 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.

Paramedic to Associate Degree Nursing

See list of Department Chairs on the Personnel page.

Program Description

The Paramedic to ADN program teaches you skills of direct patient care that you can apply in any healthcare setting. It offers theoretical and applied instruction in classrooms, simulated laboratories, and clinical settings. The program integrates education in adult, gerontological, obstetric, pediatric, and psychiatric-mental health nursing. Your clinical learning will take place in diverse institutions.

The Nursing program has a selective and limited admission policy. The application is available online at Pueblo Community College Nursing from August 1, 2025 – September 17, 2025 (date tentative). **Third Wednesday in September annually.**

All Health & Public Safety programs have essential functions to help you be successful in the program and career. Applicants must have current and unencumbered Colorado Paramedic certification. Applicants will receive a block transfer of up to 23 PLA credits.

In progress grades will be accepted, however, course must show in progress at time of application and be completed in Fall semester. It is the applican't sresponsibility to submit final spring semester course grade(s) as soon as possible to the admission committee for consideration.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The Paramedic-ADN program prepares you to provide safe, therapeutic, and competent nursing care in hospitals and other healthcare settings. You may also work as an entry-level patient-care manager.

Total Credits: 71.5

General Education and Program Prerequisite Courses

First (11 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Second (12 credits)

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

1 Course must be completed within 10 years of entrance into the program

2 The 10 year science requirement will not apply to Paramedics with 2000 hours worked in the past two (2) years.

Program Course Schedule

Apply to the Program -- October 1 to November 15 for a spring start

Application is online at Pueblo Community College Nursing

Accepted applicants must have a current Colorado Paramedic license in good standing and 23 credits will be transcribed as prior learning credits to to complete this degree.

Spring (10 credits)

NUR 1068 - Introduction to Professional Nursing Practice for Paramedics

Credit(s): 1
Lecture Hour(s): .5
Vocational Lab Hour(s): 1.5
Prerequisite(s): Current Paramedic Certification, Admission to Associate Degree Nursing Program
Corequisite(s): NUR 1089
Introduces the paramedic to nursing principles that supports future clinical practice. These principles include the professional nursing role, nursing process, evidence based practice, and patient centered care. Nursing process will be defined as the essential core of practice for the professional nurse to deliver holistic, patient-centered care. Emphasis will be to demonstrate nursing skills common to the in-patient setting.

NUR 2012 - Pharmacology II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing program and successful completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 2011 or permission of the program director.
Formerly NUR 212 Builds on previously introduced pharmacological concepts and applies that learning to pharmacologic therapy to provide safe, quality, evidence- based nursing care to patients with complex healthcare needs. Focuses on safety and quality improvement factors in the administration of medications within a variety of healthcare systems. Advanced dosage calculations included.

NUR 2011 - Psychiatric-Mental Health Nursing

Credit(s): 4
Lecture Hour(s): 2.70
Clinic Hour(s): 3.90

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of program director.
Formerly NUR 211 Develops concepts of psychosocial integrity and emphasizes the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common psychiatric clinical conditions/disorders.

Summer (6.5 credits)

NUR 2006 - Advanced Concepts of Medical-Surgical Nursing I

Credit(s): 6.50
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Clinic Hour(s): 9

Prerequisite(s): Admission to Nursing program and successful completion of preceding Nursing program course work or permission of the program director.
Corequisite(s): NUR 2012 or permission of the program director.
Formerly NUR 206 Builds on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse, high acuity medical surgical adult patients. The course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse. The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of clinical settings.

Fall (9 credits)

NUR 2016 - Advanced Concepts of Medical Surgical Nursing II

Credit(s): 5
Lecture Hour(s): 2.30
Clinic Hour(s): 8.10

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2006 and NUR 2012 or permission of the program director.
Formerly NUR 216 Continues to build on medical surgical nursing theory, mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered nursing care to developmentally and culturally diverse adult patients experiencing high acuity medical surgical conditions. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the professional nurse in high acuity settings. The application of knowledge and skills occurs in a variety of clinical settings.

NUR 2030 - Transition to Professional Nursing Practice

Credit(s): 4
Lecture Hour(s): 1.60
Clinic Hour(s): 7.20

Prerequisite(s): Admission to Nursing program and successful completion of preceding program course work or permission of the program director.
Corequisite(s): NUR 2016 or permission of the program director.
Formerly NUR 230 Provides an integrative experience applying all dimensions of the professional nurse when caring for diverse patient populations across a variety of healthcare settings. All major concepts of the nursing program are addressed in this seminar and practice capstone course. Leadership and the management of multiple patients are emphasized. The application of knowledge and skills occurs in the clinical setting to facilitate an effective transition from student to registered professional nurse.

Pharmacy Technician Certificate

See list of Department Chairs on the Personnel page.

Program Description

Pharmacy Technician (PHT) certificate program is a two-semester program and is financial aid eligible. It provides instruction in basic pharmacy theories and is an important step toward national certification as a pharmacy technician. Learning experiences include lecture, lab, and clinical exposure in local pharmacies. To ensure success in this program, you should have a good knowledge of basic algebra and math formulas.

The PHT program has a selective admissions process. The program application is online and posted at Pueblo Community College PHT May 1 to July 30. All Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

This program prepares you to work in a pharmacy setting under the supervision of a licensed pharmacist that do not require the professional judgement of a pharmacist.

Total Credits: 25

Fall (13 credits)

PHT 1011 - Introduction to Pharmacy

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PHT 111 Introduces the practice of pharmacy and the work that pharmacy technicians perform. The course provides an overview of careers within the field; educational, certification and accreditation requirements; ethical and legal responsibilities; pharmacology; as well as a variety of issues that touch on attitudes, values and beliefs of successful pharmacy technicians.

MAT 1120 - Math for Clinical Calculations

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 103 Covers the mathematical calculations needed for enteral and parenteral medication administration. It is designed for students in the health disciplines. Topics include measurements, conversion between various systems of measurements, and methods of solving problems related to drug dosage and medication administration.

PHT 1014 - Computer Skills for Pharmacy Technicians

Credit(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): College Readiness in English
Formerly PHT 114 Introduces basic pharmacy and computer terminology and applications of a pharmacy management system. Focuses on the practice of pharmacy and the multiple operations that contribute to safe and effective patient care, and discusses the roles and responsibilities of pharmacists and pharmacy technicians in computer-based systems. This course includes integration of an actual pharmacy operation application to allow hands-on technical experience.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

PHT 1013 - Communication and Professionalism for Pharmacy Technicians

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): College Readiness in English
Formerly PHT 113 Provides fundamental components of theoretical and applied aspects of personal and interpersonal communication related to pharmacy practice. Theoretical aspects include such topics as communication perceptions and barriers, listening, responding, assertiveness and non-verbal communication. Applied aspects include such techniques as role-playing, group discussion and interviewing. This course also examines the methods and practice of interviewing with respect to the roles and functions of both interviewee and interviewer.

PHT 1015 - Pharmacology I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PHT 115 Presents the fundamentals of pharmacology, the pharmacokinetic phases, and the basic concepts of normal body function. this course examines diseases which impact the various body systems and the drugs used to treat such diseases, emphasizing disease state management and drug therapy.

Spring (13 credits)

PHT 1035 - Pharmaceutical Calculations and Compounding Techniques

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 2
Prerequisite(s): College readiness in Quantitative Literacy Math
Formerly PHT 235 Develops the skills necessary to perform calculations essential to the duties of pharmacy technicians in a variety of contemporary settings. This course also applies these skills in hands-on compounding of pharmaceutical products emphasizing the importance of accuracy, quality and infection control.

PHT 1012 - Pharmacy Law and Ethics

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to program.
Formerly PHT 112 Introduces the laws, regulations and agencies that pertain to pharmacy practice and the role that technicians play to ensure compliance. Establishes a foundation of ethical behavior and decision making and discusses the consequences of violating laws and ethical principles.

PHT 1016 - Pharmacology II

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PHT 118 Examines the disease states which impact the various body systems and the drugs used to treat such diseases. This course emphasizes disease state management and drug therapy. Serves as the second part of the two-part presentation of the basic concepts of pharmacology.

PHT 1070 - Clinical:

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHT 170 Offers the clinical practicum required for the program.

PHT 1071 - Clinical:

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHT 171 Offers the clinical practicum required for the program.

1 First 8 weeks

2 Second 8 weeks

Philosophy, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in Philosophy prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) degree in Philosophy. Students who opt for the Bachelor of Arts in Philosophy can choose to work in several occupational fields, including law, government, business, science, clergy, teaching and academia. Once a BA is completed, students may pursue a higher or graduate degree in Philosophy, if interested.

Program Description

This program introduces the student to the field of Philosophy and includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Philosophy. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Philosophy will be ready to complete the last half of a BA in Philosophy at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing Course (GT-CO3) *

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GT-MA1) *, prefer MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Natural and Physical Sciences (7 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1, GT-SC2) *. At least one of these courses must include a laboratory component (GT-SC1) *

Arts and Humanities (6 Credits)

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH1, GT-AH2, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Philosophy Courses (15 Credits)

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Choose Two Courses from the Following: (6 Credits)

PHI 2014 - Philosophy of Religion: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 214 Focuses on the critical analysis and evaluation of the fundamental concepts, ideas, and implications within religious worldviews. This course includes issues such as the nature of God, other conceptions of ultimate reality, arguments concerning God`s existence, the problem of evil and suffering, faith and reason, metaphysical foundations for ethics, the phenomenon of religious experience, and religious diversity. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2018 - Environmental Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 218 Analyzes theories of the value of the natural world. Topics may 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; and the connection between moral and political values and economic policies. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2005 - Business Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 205 Examines major ethical theories and then applies ethical decision-making criteria to various moral issues and challenges in a business environment. This course includes issues such as job discrimination, worker's rights, consumerism, advertising, whistle-blowing, product safety, responsibility to the environment, as well as compassionate and fair responsibility to society. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

PHI 2020 - Philosophy of Death and Dying: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 220 Explores the major philosophical questions surrounding death and dying, the metaphysical arguments for and against the existence of the soul, life after bodily death, the major ethical theories and their relation to issues of physician-assisted suicide, care for the dying, the grieving process, death as expressed in aesthetics and contemporary society, as well as the existential contributions concerning meaning of life and the meaning of death. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Electives (14 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Colorado State University-Fort Collins (B.A. Philosophy, General Philosophy concentration)
- Fort Lewis College (B.A. Philosophy)
- Metropolitan State University of Denver (B.A. Philosophy)
- University of Colorado, Boulder (B.A. Philosophy)
- University of Colorado, Colorado Springs (B.A. Philosophy)

- University of Colorado, Denver (B.A. Philosophy)
- University of Northern Colorado (B.A. Philosophy)

Phlebotomy Technician Mini-Certificate

See list of Department Chairs on the Personnel page.

Program Description

Phlebotomy Technician (PHL) is a one-semester (three course) certificate program. Courses cover venipuncture, capillary puncture, quality control, infection control, safety procedures, and laboratory computer systems. You will participate in laboratory and clinical experiences to perfect blood drawing skills and prepare you for the workforce as a qualified phlebotomist. When you successfully complete this program, you are eligible to sit for the National Phlebotomy Registry Exam.

The PHL program has a selective admissions process. The program application and requirements are available in the Health & Public Safety office or at Pueblo Community College PHL April 1 to July 15 for Fall Semester start and October 1 to December 15 for Spring Semester start.

Note: You must undergo a background check and drug screen before we can officially admit you to the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

Phlebotomy Technician work in doctor's offices, hospital and outpatient labs.

Total Credits: 10

Certificate Requirements

HPR 1020 - Phlebotomy

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Program admission required.
Formerly HPR 112 Covers the duties associated with the practice of venipuncture, capillary puncture, and special collection procedures. This course provides experience with quality control, infection control, safety procedures, as well as laboratory computer systems. Successful completion of this course, with an adequate number of blood draws, will constitute eligibility for application for a National Phlebotomy Registry Examination.

HPR 2020 - Advanced Phlebotomy

Credit(s): 4
Lecture Hour(s): 2.50
Vocational Lab Hour(s): 2.25
Prerequisite(s): Program admission required.

Formerly HPR 113 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 1080 - Internship

Credit(s): 2
Internship Hour(s): 6
Prerequisite(s): Program admission and HPR 1020
Formerly HPR 180 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.

Photovoltaic Panel Installation CER

Program Description

See list of Department Chairs on the Personnel page.

The Industrial Technology Maintenance (ITM) Program prepares students for entry level employment into career paths that include electronics technicians, electrical technicians, semiconductor manufacturing technicians, and field service technicians. The program provides the student with knowledge and essential skills in the complex electro-mechanical systems found in production facilities. The curriculum addresses digital electronics, print reading, motors and controls, programmable logic controllers, and mechanical components. The ITM Program also offers certificates in Solar installation and Green Energy Technologies associated with Industrial Installation and Maintenance.

Total Credits: 17

Core Curriculum Requirements

MAC 1000 - Machine Shop Safety

Credit(s): 1
Lecture Hour(s): 1
Formerly MAC 100 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.

ELT 1206 - Fundamentals of DC/AC

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Corequisite(s): MAT 1140 or higher
Formerly ELT 106 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.

ENY 1621 - Solar Photovoltaic Components

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): ELT 1206
Formerly ENY 121 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.

ELT 1207 - Industrial Electronics

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): ELT 1206 or EIC 1201
Formerly ELT 107 Provides a basic knowledge of generators, motors and the solid state devices and digital techniques used for industrial control applications.

ENY 1655 - Solar Photovoltaic Field Lab Experience

Credit(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): Department chair approval
Formerly ENY 165 Onsite / hands-on training experience for students. Experiences include on-site installations, inspection tours, mock-roof training installations, industry association meetings, field experience workshops.

ELT 2080 - Internship

Credit(s): 1-12
Internship Hour(s): 3-36
Prerequisite(s): Permission of Chair or Instructor
Formerly ELT 280 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.

ENY 1632 - NABCEP Entry Level Prep Class

Credit(s): 1
Vocational Lab Hour(s): 1.5
Formerly ENY 132 Reviews the knowledge needed by the student to permit passing the NABCEP Entry level test. This is an overview class only and is not meant to be a replacement for the actual class.

Physical Therapist Assistant, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

PTAs work under the direction of physical therapists, helping to manage conditions such as back and neck injuries, sprains/strains and fractures, arthritis, burns, amputations, strokes, multiple sclerosis, birth defects, injuries related to work and sports, and many other conditions. You will work in a broad range of settings, including hospitals, outpatient clinics, rehabilitation facilities, skilled nursing, extended care, sub-acute facilities, homes, schools, fitness centers and sports training facilities.

Program Description

The AAS degree prepares you to serve as a PTA within 5 semesters. The program is offered 2-2½ days per week except during the clinical experiences which occur in the third and fifth semester. Clinical experiences are scheduled for 40 hours per week and placement is typically anywhere in Southern Colorado. Learning experiences include lecture and interactive lab opportunities in a spacious lab with state-of-the-art equipment.

The Physical Therapist Assistant Program at Pueblo Community College is accredited by the Commission on Accreditation in Physical Therapy Education, 3030 Potomac Ave, Suite 100, Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org. If needing to contact the program/institution directly, please call 719-549-3433 or email Lori.Mcgill@pueblocc.edu.

Students accepted into the PTA program must pass a background check and drug screen before being officially admitted into the program. The background check and drug screen must be repeated before the student begins the second year of the program. Students are responsible for all expenses associated with internships and must provide their own transportation to and from clinicals. Financial aid is available through the PCC Financial Aid Office. Additional scholarship and grant information will be posted on the PTA bulletin board as it becomes available.

Program Requirements

The PTA Program has a selective admissions policy. You must submit a PTA application that is available through the Health and Public Safety Division or the PTA website. General Education requirements include ENG 1021, COM 1150, PSY 1001, HPR 1038, BIO 2101 and PHY 1105. BIO 2101 and PHY 1105 must be completed before the application due date of May 25. All general education courses must be completed with a "C" or above and the applicant must have a minimum GPA of 2.50. Once in the program you must also have a health care provider CPR card to attend clinical experiences and you must provide proof of current immunizations and purchase liability insurance.

Note: Clinical sites used during the program require that you successfully complete a background check and drug screen. These need to be completed before final acceptance into the program.

Total Credits: 75

Degree Requirements

*** May** be completed prior to program admission
**** Must** be completed prior to program admission

Prerequisites

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3

Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Core Curriculum Requirements

Semester 1 — Fall

HPR 1017 - Anatomical Kinesiology

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): BIO 2101
Formerly HPR 117 Studies the Anatomical Bases of Human Movement.

PTA 1010 - Basic Patient Care in Physical Therapy

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.50
Prerequisite(s): Admission into the PTA program
Formerly PTA 110 Examines the basic patient care skills for the healthcare practitioner enabling understanding and demonstration of skills that include positioning, body mechanics, transfers, range of motion, palpation, vital signs, aseptic techniques, bandaging, medical terminology, activities of daily living (ADLs), wheelchair management, architectural barriers, and gait training.

PTA 1015 - Principles and Practices of Physical Therapy

Credit(s): 2
Lecture Hour(s): 2
Formerly PTA 115 Explores the history of the profession including definition, development and areas of practice. The role of the American Physical Therapy Association (APTA), the physical therapist assistant (PTA) and the relationship between the physical therapist (PT), PTA and other health care professionals are investigated. This course covers current issues and trends including professionalism, legal aspects, ethics, quality assurance, communications and reimbursement issues such as Medicare, Medicaid, Worker's Compensation and commercial insurance.

PTA 1031 - Professional Communications I

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission into the PTA program
Formerly PTA 131 Introduces oral and written professional communication in the physical therapy field. This course develops skills in verbal and non-verbal communication, performance evaluation, literature research, and presentation, use of editorial style and technology, and development of professional behaviors.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

Semester 2 — Spring

PTA 1020 - Modalities in Physical Therapy

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.50
Prerequisite(s): PTA 1010
Formerly PTA 120 Examines the theory and principles of physical therapy modalities. This course includes therapeutic heat and cold, traction, hydrotherapy, and light therapies.

PTA 1035 - Principles of Electrical Stimulation

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): PTA 1010
Formerly PTA 135 Explores the principles and application of electrical stimulation (ES) modalities currently used in physical therapy practice. This course enables the understanding of the electrochemical and physiological effects of electrical stimulation and identification of the various forms and applications of electrical stimulation modalities.

PTA 1040 - Clinical Kinesiology

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.5
Prerequisite(s): HPR 1017 and admission to the Physical Therapy Assistant Program
Formerly PTA 140 Focuses on the science of human motion, theories of biomechanics, and muscle and joint structure and function. This course emphasizes basic principles of therapeutic exercise and their application to specific body regions, and includes the application of kinesiology and exercise principles.

PTA 1041 - Professional Communications II

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): PTA 1031
Formerly PTA 141 Explores medical documentation of patient care as used in the profession of physical therapy throughout multiple practice settings. This course develops physical therapy documentation skills that use standardized formats and meet requirements of various payer sources and settings.

PTA 1024 - Rehab Principles of Medical I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the PTA program
Formerly PTA 124 Investigates the functioning, disability and health associated with a variety of genetic, developmental and neuromusculoskeletal conditions. The course covers medical management including pharmacology, and its impact on physical therapy rehabilitation principles are discussed. The course investigates evidence based practice for genetic, developmental, musculoskeletal, and neurological system diagnosis, as well as common medical and surgical conditions, will be reviewed as they relate to physical therapy rehabilitation.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Semester 3 — Summer

PTA 1034 - Rehabilitation Principles of Medical Management II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission into the PTA program
Formerly PTA 134 Investigates the functioning, disabilities and health associated with a variety of pathophysiological processes and conditions. Medical management, including pharmacology, and its impact on physical therapy rehab principles are discussed. Evidence based practice for cardiovascular, endocrine/metabolic, gastrointestinal, genital/reproductive, hematologic, immune, integumentary, hepatic/biliary, lymphatic, and respiratory system diagnoses as well as chronic pain diagnoses and common medical and surgical conditions will be reviewed as they relate to physical therapy rehab.

PTA 2080 - Internship I

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): PTA 1020 and PTA 1040
Formerly PTA 280 Focuses on an 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 provides supervision.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Semester 4 — Fall

PTA 2005 - Psychosocial Issues in Health Care

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): PTA 2080
Formerly PTA 205 Explores the psychosocial aspects of the patient and or 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 enabling the development of skills necessary to meet expectations and needs of members of society receiving health care services.

PTA 2030 - Orthopedic Assessment and Management

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.5
Prerequisite(s): PTA 1020 and PTA 1040
Formerly PTA 230 Examines the theory, principles, and practices of orthopedic conditions. This course includes assessment and management techniques pertaining to orthopedic conditions, goniometry, manual muscle testing, gait analysis, and posture analysis.

PTA 2040 - Neurologic Assessment and Management Techniques

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.50
Prerequisite(s): PTA 1020 and PTA 1040
Formerly PTA 240 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 2051 - Professional Communications III

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): PTA 1041

Formerly PTA 251 Advances development and application of the written and oral communication skills utilized in healthcare and physical therapy workplace settings.

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Semester 5 — Spring

PTA 2078 - PTA Seminar

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): PTA 2030 and PTA 2080
Formerly PTA 278 Provides students with an experiential learning opportunity.

PTA 2081 - PTA Internship II

Credit(s): 5
Internship Hour(s): 15
Prerequisite(s): PTA 2080 and Prerequisite/Corequisite below
Prerequisite(s)/Corequisite(s): PTA 2030
Formerly PTA 281 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 2082 - PTA Internship III

Credit(s): 5
Internship Hour(s): 15
Prerequisite(s): PTA 2040 and PTA 2081
Formerly PTA 282 Incorporates advanced clinical experience providing hands on patient practicum skills and techniques. Students 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 presents an inservice on a physical therapy related topic.

PN Opt-out Certificate

See list of Department Chairs on the Personnel page.

Program Description

The LPN program teaches you skills of direct patient care that you can apply in any healthcare setting. It offers theoretical and applied instruction in classrooms, simulated laboratories, and clinical settings. It integrates education in adult, gerontological, obstetric, pediatric, and psychiatric-mental health nursing. Your clinical learning will take place in diverse types of institutions.

The Nursing program has a selective and limited admission policy. The application is available online at **Pueblo Community College Nursing** PCCSW: December 1, 2024 - February 28, 2025 Pueblo & Fremont: April 1, 2025 – May 28, 2025 **Wednesday after Memorial Day.**

All Health & Public Safety programs have essential functions to help you be successful in the program and career. **In progress grades will be accepted, however course must show in progress at time of application and be completed in Spring semester.** It is the applicant's responsibility to submit final spring semester course grade(s) as soon as possible to the admission committee for consideration.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The LPN program prepares you to provide safe, therapeutic, and competent nursing care in hospitals and other healthcare settings. You may also work as an entry-level patient care manager.

Total Credits: 54

General Education and Program Prerequisites

First (12 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

HPR 1010 - Dietary Nutrition

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 108 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.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Second (12 credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and

controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

1 Course must be completed or in progress (Spring Semester) to apply to the program

2 Course must be completed within 10 years of entrance into the program

Program Course Schedule

Application Admission Requirements

Complete NUA 101 Certified Nurse Aide Health Care Skills, or the Nurse Aide coursework within the Colorado Community College System (CCCS), or have an Active Colorado CNA Certificate. (If Nursing Assistant Certificate is obtained through a private company or an out-of-state institution, student must obtain an Active Colorado CNA Certificate). Nurse Aide certificate must be in good standing without stipulation. Nurse Aide courses must be completed within seven (7) years of entry into PCC Nursing program. If the applicant is a current Colorado Certified Nurse Aide, in good standing, there is no time limit.

Apply to the program -- April 1 to May 20, 2022

Application is online at Pueblo Community College Nursing

First (13 credits)

NUR 1009 - Fundamentals of Nursing

Credit(s): 6
Lecture Hour(s): 2
Vocational Lab Hour(s): 6
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing or Psychiatric Technician programs.
Corequisite(s): Nursing: NUR 1012, HPR 1010, MAT 1120. Psych Tech: NUR 1012.
Formerly NUR 109 Examines the fundamental concepts necessary for safe, person-centered nursing care to a diverse patient population while integrating legal and ethical responsibilities. This course introduces caring, critical thinking/clinical judgment, the nursing process, quality improvement, and communication used when interacting with patients and interdisciplinary team through evidence-based nursing practice. The 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 1012 - Basic Concepts of Pharmacology

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Admission to Nursing or Psychiatric Technician programs.
Corequisite(s): Nursing: NUR 1009, HPR 1010, MAT 1120; Psych Tech: NUR 1009.
Formerly NUR 112 Provides an overview of the basic principles of pharmacology including major drug classifications and prototypes of commonly used medications. This course introduces central concepts including safety and quality improvement practices in the administration of medications, person centered teaching, and variations encountered when administering medications to diverse population across the lifespan.

NUR 1001 - Pharmacology Calculations

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 101 Prepares nurse to provide safe, person-centered nursing care related to dosage calculations within the respective scope of practice. This course introduces critical thinking applied to dosage calculations and communication used when interacting with patients and members of the healthcare team related to various aspects of safe administration of medications. Information technology used to document medications administered and patient technology used to deliver medications are also practiced.

BIO 2116 - Human Pathophysiology

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): BIO 2101
Prerequisite(s)/Corequisite(s): BIO 2102
Formerly BIO 216 Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

Second (13 credits)

NUR 1006 - Medical Surgical Nursing Concepts

Credit(s): 7
Lecture Hour(s): 3.40
Vocational Lab Hour(s): 0.90
Clinic Hour(s): 9.90

Prerequisite(s): Admission to Nursing Program and completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 1050 or permission of the program director.
Formerly NUR 106 Builds on fundamentals and introduces basic medical surgical nursing concepts, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, person-centered care to a developmentally and culturally-diverse adult patient population. This course incorporates evidence-based practice, quality improvement, professional standards, and legal and ethical responsibilities of the nurse. The application of knowledge and skills occurs in the nursing skills laboratory and a variety of clinical settings.

NUR 1050 - Maternal-Child Nursing

Credit(s): 6
Lecture Hour(s): 3.30
Vocational Lab Hour(s): 2.10
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing program and completion of preceding required program course work or permission of the program director.
Corequisite(s): NUR 1006 or permission of the program director.
Formerly NUR 150 Provides the theory of maternal-child nursing, as well as application of mental health concepts, communication, collaboration, caring, and critical thinking/clinical judgment necessary for safe, family-centered nursing care to childbearing families and children that is developmentally and culturally appropriate. This course incorporates evidence-based practice, standards of practice, quality improvement, and legal and ethical responsibilities.

The application of knowledge and skills occurs in the nursing skills laboratory and in a variety of maternal-child and pediatric clinical settings.

Summer (4 credits)

NUR 1069 - Transition into Practical Nursing

Credit(s): 4
Lecture Hour(s): 2
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing program and completion of preceding required program course work or program director permission.
Formerly NUR 169 Facilitates the transition into the role of the practical nurse with emphasis on distinguishing the defined practical nurse scope of practice related to clinical practice, communication, nursing process, ethical/legal issues, and leadership skills. The student practices in the role of the practical nurse in the associated clinical experience.

Police Science Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Law Enforcement program prepares students for careers in law enforcement as a police officers, desk officer, bailiff or corrections officer. Additionally, students could work as criminal investigators, detectives, police agencies, or in correction and judicial facilities.

Program Description

The Law Enforcement program teaches students an in-depth analysis of the three (3) components of the criminal justice system (law enforcement, the judicial system and corrections) with special emphasis on criminology, substantive criminal law, procedural criminal law and constitutional law. It places a strong emphasis on reading and comprehension skills, written and verbal communication skills and empathetic awareness of cultural diversity.

Program Requirements

Entrance requirements:

Successful completion of any CCR course or qualifying placement score or exemption to complete the Criminal Justice courses. Admission into the Law Enforcement Academy courses requires a student to file an application with the PLEA Department Chair and meet specific guidelines prior to admission into the program (such as state statutory requirements for background checks). You may enroll in PLEA courses only if you are admitted into the program.

Graduation requirements:

In addition to program requirements for this program, you must complete ENG 1021, COM 1150, MAT 1140 and six (6) credits of social and behavioral science courses.

Total Credits: 37

Certificate Requirements

LEA 1001 - Basic Police Academy I

Credit(s): 6
Lecture Hour(s): 6
Formerly LEA 101 Conforms to POST (Peace Officer standards and Training) standards and Colorado 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 both a lecture and laboratory mode of learning.

LEA 1002 - Basic Police Academy II

Credit(s): 12
Lecture Hour(s): 12
Formerly LEA 102 Conforms to POST (Peace Officer Standards and Training) 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 1003 - Basic Law Enforcement Academy III

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly LEA 103 Enhances the standards established by the Colorado P.O.S.T. Board and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a Police Officer. Emphasis will be on expanding the Colorado P.O.S.T. curriculum to create a unique learning experience.

LEA 1005 - Basic Law

Credit(s): 8
Lecture Hour(s): 8
Formerly LEA 105 Conforms to the Colorado POST (Peace Officer Standards and Training) 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 1006 - Arrest Control Techniques

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 106 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a

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

LEA 1007 - Law Enforcement Driving

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 107 Exploration of 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 1008 - Firearms

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly LEA 108 Conforms to POST (Peace Officer Standards and Training) standards and Colorado state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. 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 be able to explain the firearms role within the continuum of force.

Political Science, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Political Science prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts degree (BA) in political science. Students who opt for a bachelor's degree in political science may choose to work in federal, state and local governments, law, business, international organizations, nonprofit organizations, campaign management and polling, journalism, electoral politics, research or education. Once a BA is completed, students may pursue a higher or graduate degree in political science if interested.

Program Description

The Associate of Arts Degree with Designation in Political Science includes the course work to meet general education requirements that are common to all Colorado four-year institutions. The degree is designed for students who want to transfer to a four-year college or university to pursue a bachelor's degree in political science. Completion of the AA degree completes the first two years of a bachelor's degree and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in political science.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with a designation in political science, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (32 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (3 Credits)

- Select from a GT Pathways Mathematics course (GT-MA1), prefer MAT 1260 *

Natural and Physical Sciences (8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1) *

Arts and Humanities (6 Credits)

Select two GT Pathway courses from any category

- (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 202 Focuses on the study of individual decision making, emphasizing households, business firms and industry analysis. Explores market models, including competition, monopoly, monopolistic competition and oligopoly. Examines market failure and related efficiency criteria for government intervention. Explores public policy, including labor market issues, poverty and the environment. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Political Science Courses (12 Credits)

PSC 2020 - Introduction to Political Science: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 105 Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments and processes, and international relations. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

- POS 205 - OFFERED ONLINE
- POS 225 - OFFERED ONLINE

Electives (16 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. History, Anthropology, & Political Science: Political Science)
- Colorado Mesa University (B.A. Political Science)
- Colorado State University-Fort Collins (B.A. Political Science)
- Colorado State University-Pueblo (B.A. Political Science; B.S. Political Science)
- Fort Lewis College (B.A. Political Science)
- Metropolitan State University of Denver (B.A. Political Science)
- University of Colorado, Boulder (B.A. Political Science)
- University of Colorado, Colorado Springs (B.A. Political Science)
- University of Colorado, Denver (B.A. Political Science)
- University of Northern Colorado (B.A. Political Science)
- Western State Colorado University (B.A. Politics & Government)

Practical Nursing (PN)

See list of Department Chairs on the Personnel page.

Offered only at PCC's Southwest Campus, Mancos

Career Information

The Practical Nursing Program is designed to prepare safe practitioners to administer basic nursing care and/or assist with care of patients of various health status and ages within the province of practical nursing as defined by law. Licensed Practical Nurses (LPNs) work under the direction of physicians and registered nurses to care for sick, injured, and convalescent. The Practical Nursing Program prepares you to provide safe, therapeutic, and competent nursing care in some hospitals and other healthcare settings. You may also work as an entry level patient-care manager.

Note: A background check and drug screen is required to be officially admitted into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Total Credits: 43

General Education (7 credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

1 Courses must be completed or in progress (Fall Semester) to apply to the program. A grade of C or higher is required.

2 Courses must be completed within 10 years of entrance into the program.

3 Bio 2101 and BIO 2102 are acceptable replacements for BIO 1006 requirement

Core Requirements (36 credits)

Fall - 18

NUR 1001 - Pharmacology Calculations

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 101 Prepares nurse to provide safe, person-centered nursing care related to dosage calculations within the respective scope of practice. This course introduces critical thinking applied to dosage calculations and communication used when interacting with patients and members of the healthcare team related to various aspects of safe administration of medications. Information technology used to document medications administered and patient technology used to deliver medications are also practiced.

NUR 1002 - Alterations in Adult Health I

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 102 Provides acquisition of basic nursing theory, communication, collaboration, and critical thinking necessary for safe, person-centered nursing care to diverse adult patients experiencing common health alterations requiring medical/surgical interventions. The course introduces practical nursing and incorporates the legal and ethical responsibilities of the practical nurse (PN).

NUR 1005 - Practical Nursing Arts and Skills

Credit(s): 6
Lecture Hour(s): 3

Vocational Lab Hour(s): 9
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 105 Employs basic nursing theory and applies that theory and theory from other co-requisite nursing courses to the performance of nursing skills. Communication, collaboration, and critical thinking necessary for safe, person-centered nursing care are applied to the care of patients across the lifespan with stable and predictable outcomes. This course applies guidelines related to the professional, legal, and ethical scope of practice of the practical nurse (PN), including demonstrating safe performance of all psychomotor skills.

NUR 1010 - Pharmacology for Practical Nursing

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 110 Categorizes basic principles of pharmacology, including major drug classifications using prototype drugs, principles of medication administration including best practices for safe, quality, and person-centered care. This course will discuss the legal and ethical responsibilities of the practical nurse (PN) related to medication administration. The application of this content is used throughout the program nursing courses.

NUR 1070 - Clinical I

Credit(s): 2
Clinic Hour(s): 6

Prerequisite(s): Admission to Practical Nursing Program.
Formerly NUR 170 Offers the clinical practicum to apply the related nursing theory.

NUR 1071 - Clinical II

Credit(s): 2
Clinic Hour(s): 6

Prerequisite(s): Admission to Nursing Program.
Formerly NUR 171 Offers the clinical practicum to apply the related nursing theory.

Spring - 18

NUR 1004 - Alterations in Adult Health II

Credit(s): 5
Lecture Hour(s): 4.50
Vocational Lab Hour(s): 1.50
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071.
Formerly NUR 104 Applies and expands the knowledge and skills learned in Adult Health I to provide acquisition of basic nursing theory, communication, collaboration and critical thinking necessary for safe, person-centered nursing care for diverse adult patients with conditions that are stable and predictable. This course focuses on care of patients experiencing common health alterations requiring medical surgical interventions. The course incorporates legal and ethical responsibilities of the practical nurse (PN) in the care of adults.

NUR 1003 - Basic Health Assessment for the Practical Nurse

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071, or with department chair permission
Formerly NUR 103 Provides the theoretical knowledge and psychomotor skills used by the practical nurse (PN) performing a basic assessment of health status of stable adult patients with predictable outcomes, including collecting, reporting, and recording objective and subjective data, observing conditions or changes in condition, and differentiating normal from abnormal findings. The principles of therapeutic communication and patient teaching are included, along with practice in collecting basic assessment data in the nursing skills laboratory.

NUR 1015 - Basic Concepts of Mental Health Nursing

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 115 Applies knowledge of basic nursing theory, communication, collaboration, and critical thinking necessary for safe, person-centered nursing care to diverse patients at various levels of mental health promotion and mental illness management. This course incorporates the legal and ethical responsibilities of the practical nurse (PN) in the care of patients with mental health issues.

NUR 1011 - Advancement into Practical Nursing

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071.
Formerly NUR 111 Demonstrates the roles and responsibilities of the Practical Nurse including scope of practice, supervision, assignment, and leadership skills. Emphasis on accountability, lifelong learning, perspectives in healthcare, and career and job readiness skills for entry level nursing practice.

NUR 1013 - Basic Concepts of Maternal-Newborn Nursing

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 113 Applies and expands the knowledge and skills learned in the previous and concurrent courses to provide the acquisition of basic nursing theory, communication, collaboration, and critical thinking necessary for safe, person-centered nursing care to childbearing families. This course incorporates the legal and ethical responsibilities of the practical nurse (PN) in the care of childbearing families.

NUR 1014 - Basic Concepts of Pediatric Nursing

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071.
Formerly NUR 114 Applies and builds upon the knowledge and skills learned in the previous and concurrent courses to provide for the acquisition of basic nursing theory, communication, collaboration, and critical-thinking necessary for safe, person-centered nursing care to children and their families. This course incorporates the legal and ethical responsibilities of the practical nurse (PN) in the care of children.

NUR 1016 - Basic Concepts of Geriatric Nursing

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 116 Applies and builds upon the knowledge and skills learned in the previous and concurrent courses to provide for the acquisition of basic nursing theory, communication, collaboration, and critical thinking necessary for safe, person-centered nursing care to older adults. This course incorporates the legal and ethical responsibilities of the practical nurse (PN) in the care of older adults.

NUR 1072 - Clinical III

Credit(s): 3
Clinic Hour(s): 9

Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 172 Offers the clinical practicum to apply the related nursing theory.

NUR 1073 - Clinical III

Credit(s): 2
Clinic Hour(s): 6

Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071
Formerly NUR 173 Offers the clinical practicum to apply the related nursing theory.

Pre-Engineering Transfer to CSU-P

Total Credits: 60

Bachelor of Science - Industrial Engineering

Written Communication (6)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (3)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Arts & Humanities (9)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

- Two GT Pathways Arts & Humanities courses from two different areas (GT-AH1, GT-AH2, GT-AH3, or GT-AH4) **Credit(s): 6**

Social & Behavioral Sciences (6)

- Two GT Pathways Social & Behavioral Science courses from two different areas (GT-SS1, GT-SS2, or GT-SS3) **Credit(s): 6**

History (3)

- One GT Pathways History course (GT-HI1) **Credit(s): 3**

Natural & Physical Sciences (10)

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Required Courses (11)

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

EGG 1040 - Engineering Projects

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): MAT 1340 or higher
Formerly EGG 140 Teaches how to engage community stakeholders and use traditional research practices to identify, define, articulate, and design technical solutions to open-ended problems. The course utilizes teamwork on a semester-long iterative design project.

Elective and Recommended Courses (12)

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020

Corequisite(s): MAT 1340
Formerly CSC 160 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.

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410
Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2560 - Differential Equations: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 2420
Formerly MAT 265 Explores techniques of problem solving and applications. Topics include first, second, and higher order differential equations, series methods, approximations, systems of differential equations, and Laplace transforms. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

- Choose 1 class from the AS approved list **Credit(s): 1**

Bachelor of Science - Mechatronics

Written Communication (6)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

Mathematics (3)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Arts & Humanities (9)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

- Two GT Pathways Arts & Humanities courses from two different areas (GT-AH1, GT-AH2, GT-AH3, or GT-AH4) **Credit(s): 6**

Social & Behavioral Sciences (6)

- Two GT Pathways Social & Behavioral Science courses from two different areas (GT-SS1, GT-SS2, or GT-SS3) **Credit(s): 6**

History (3)

- One GT Pathways History course (GT-HI1) **Credit(s): 3**

Natural & Physical Sciences (10)

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): MAT 2410
Formerly PHY 211 Covers the physics of kinematics, dynamics, and conservation laws and requires application of classical physics to both mathematical and conceptual problems. Specific concepts covered include 1D and 2D kinematics, Newton's Laws, rotational motion, energy and work, momentum and impulse, and simple harmonic motion. This course may also cover thermodynamics and fluid mechanics. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): PHY 2111
Formerly PHY 212 Covers the physics of electricity and magnetism using conceptual and mathematical reasoning, including calculus. Maxwell's equations, waves, and time-varying circuits will be covered. Optional topics include

wave and geometric optics and AC circuits. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Required Courses (11)

MAT 1420 - College Trigonometry: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 1340 or appropriate test scores
Formerly MAT 122 Explores trigonometric functions, their graphs, inverse functions and identities. Topics include: trigonometric equations, solutions of triangles, trigonometric form of complex numbers, and polar coordinates. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

MAT 2410 - Calculus I: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 1420 or MAT 1440 or appropriate test scores
Formerly MAT 201 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 is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

EGG 1040 - Engineering Projects

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): MAT 1340 or higher
Formerly EGG 140 Teaches how to engage community stakeholders and use traditional research practices to identify, define, articulate, and design technical solutions to open-ended problems. The course utilizes teamwork on a semester-long iterative design project.

Elective and Recommended Courses (13)

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

MAT 2420 - Calculus II: GT-MA1

Credit(s): 5
Lecture Hour(s): 5
Prerequisite(s): MAT 2410

Formerly MAT 202 Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly CHE 101 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Production Technician Certificate

See list of Department Chairs on the Personnel page.

CERTIFICATE IS UNDER REVIEW

Total Credits: 20

Certificate Requirements

MAC 1002 - Print Reading for Machinists

Credit(s): 3
Lecture Hour(s): 3
Formerly MAC 102 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.

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

MTE 1102 - Safety Manufacturing Environment

Credit(s): 1
Lecture Hour(s): 1
Formerly MTE 105 Introduces Occupational Safety and Health Administration (OSHA) federal and state regulations,

industrial practices, and accident investigation techniques; including topics such as hazard communication standards, lockout/tagout procedures, eye safety, lifting techniques, electrical safety, stored energy safety, Personal Protective Equipment (PPE), and safety program development and monitoring.

MTE 1110 - Applied Communication and Teamwork in Industry

Credit(s): 3
Lecture Hour(s): 3
Formerly MTE 110 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 1200 - Manufacturing Processes

Credit(s): 3
Lecture Hour(s): 3
Formerly MTE 120 Provides an overview of the different methods, tools, and machines which are used to manufacture industrial and consumer products.

MTE 1075-1077 - Special Topics

Credit(s): 0-12
Formerly MTE 175-177 Provides student with a vehicle to pursue in depth exploration of a special topic of interest.

Professional Communication Certificate

Dr. Patrick Maille, Dean of Arts and Sciences

See list of Department Chairs on the Personnel page.

Career Opportunities

The Certificate of Professional Communication program prepares students for careers in management, human resources, nonprofit organizations, marketing, public relations and recruitment, as well as workplace advancement.

Program Description

The Certificate of Professional Communication program teaches students to write and speak to diverse publics, engage in critical thinking and problem-solving, work as part of a team and employ one-on-one conflict resolution strategies. The curriculum is designed to sharpen students' verbal and written communication abilities for the best practices of being part of a 21st-century workplace.

Disclaimer

The Certificate of Professional Communication will not appear as a certificate on official college transcripts. Courses taken toward the Certificate may apply to other programs on a degree-by-degree basis.

Program Requirements

Entrance Requirements:

Placement into ENG 1021 **or** successful completion of any CCR course with a grade of "C"/"S" **or** higher.

Graduation Requirements:

Successful completion of COM 2089 - Capstone.

Total Credits: 17

Certificate Requirements

Core Requirements (17 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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 2068 - Problem Solving

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 268 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 2300 - Intercultural Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 220 Provides a global view of communication across cultures and brings an awareness of how perception, language, race, verbal, and nonverbal communication impact our behaviors, messages, and interactions. Emphasis is on developing effective and ethical cross-cultural communication skills, while also building an appreciation for different cultures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 2089 - Capstone

Credit(s): 2
Lecture Hour(s): 2
Formerly COM 289 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Programming Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computer science, computer networking and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree section.

Total Credits: 11

Certificate Requirements

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer

Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

Psychiatric Technician Certificate

See list of Department Chairs on the Personnel page.

Program Description

This program teaches you to use basic patient care and psychiatric principles to interact with and care for clients in a therapeutic manner and monitor treatment modalities. You will learn to perform basic nursing skills, administer medications, conduct one-to-one relationship development, and participate in group therapy.

The Psychiatric Technician program has a selective admissions process. The program application and requirements are available in the Nursing office or at Pueblo Community College Psych Tech from March 1—July 30. All Medical & Behavior Health Division programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Career Information

The Psychiatric Technician Certificate Program provides you with knowledge and skills for employment as a psychiatric caregiver in health care settings.

Total Credits: 38

Spring (9 credits)

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

NUA 1001 - Nurse Aide Health Care Skills

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Formerly NUA 101 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 1070 - Nurse Aid Clinical Experience

Credit(s): 1
Clinic Hour(s): 1.5

Formerly NUA 170 Applies knowledge and skill gained in NUA 101 to patient care. Pass/fail grading (F).

Fall (14 credits)

PTE 1010 - Intro to Behavioral Health Care and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly PTE 110 Explores basic principles of behavioral health and wellness care in behavioral health settings. This course develops interpersonal and technical skills while working with clients in psychiatric care settings.

NUR 1001 - Pharmacology Calculations

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 101 Prepares nurse to provide safe, person-centered nursing care related to dosage calculations within the respective scope of practice. This course introduces critical thinking applied to dosage calculations and communication used when interacting with patients and members of the healthcare team related to various aspects of safe administration of medications. Information technology used to document medications administered and patient technology used to deliver medications are also practiced.

NUR 1003 - Basic Health Assessment for the Practical Nurse

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): NUR 1001, NUR 1002, NUR 1005, NUR 1010, NUR 1070, NUR 1071, or with department chair permission
Formerly NUR 103 Provides the theoretical knowledge and psychomotor skills used by the practical nurse (PN) performing a basic assessment of health status of stable adult patients with predictable outcomes, including collecting, reporting, and recording objective and subjective data, observing conditions or changes in condition, and differentiating normal from abnormal findings. The principles of therapeutic communication and patient teaching are included, along with practice in collecting basic assessment data in the nursing skills laboratory.

NUR 1005 - Practical Nursing Arts and Skills

Credit(s): 6
Lecture Hour(s): 3
Vocational Lab Hour(s): 9
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 105 Employs basic nursing theory and applies that theory and theory from other co-requisite nursing courses to the performance of nursing skills. Communication, collaboration, and critical thinking necessary for safe, person-centered nursing care are applied to the care of patients across the lifespan with stable and predictable

outcomes. This course applies guidelines related to the professional, legal, and ethical scope of practice of the practical nurse (PN), including demonstrating safe performance of all psychomotor skills.

NUR 1010 - Pharmacology for Practical Nursing

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to Practical Nurse Program.
Formerly NUR 110 Categorizes basic principles of pharmacology, including major drug classifications using prototype drugs, principles of medication administration including best practices for safe, quality, and person-centered care. This course will discuss the legal and ethical responsibilities of the practical nurse (PN) related to medication administration. The application of this content is used throughout the program nursing courses.

Spring (15 credits)

PTE 1017 - Theoretical Concepts of Psychiatric Care II

Credit(s): 2
Lecture Hour(s): 2
Formerly PTE 117 Explores psychiatric problems common to four (4) special populations: children/adolescents, developmentally disabled individuals, aging persons, and forensic clients. The student learns to recognize and intervene with problems common to these four groups.

PTE 1018 - Psychiatric Management Principles

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): Admission into the Psychiatric Technician program, PTE 1017, PTE 1071.
Corequisite(s): PTE 1072.
Formerly PTE 118 Explores principles of psychiatric unit management and professional behaviors in psychiatric care. Self-care issues and job-seeking skills are also discussed.

PTE 1020 - Application of Behavioral Health Care & Wellness

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Formerly PTE 120 Explores basic etiology, symptoms, and interventions for common behavioral and mental health disorders. Provides the opportunity for students to experience the mileu of a behavioral health care setting while providing basic care to clients experiencing common behavioral and mental health issues.

PTE 1070 - Clinical Concepts of Psychiatric Care I

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): Program admission
Formerly PTE 170 Provides clinical application of theory and principles presented in PTE 116 through supervised clinical practice in a psychiatric care setting.

PTE 1071 - Clinical Concepts of Psychiatric Care II

Credit(s): 3
Clinic Hour(s): 6

Prerequisite(s): Admission into the Psychiatric Technician program, PTE 1016, PTE 1070, or permission of instructor.
Corequisite(s): PTE 1017.
Formerly PTE 171 Provides clinical application of theory and principles presented in PTE 117 through supervised clinical practice in a psychiatric care setting.

PTE 1072 - Psychiatric Management Clinical

Credit(s): 2
Clinic Hour(s): 4

Prerequisite(s): Admission into the Psychiatric Technician program, PTE 1070, PTE 1071.
Corequisite(s): PTE 1018.
Formerly PTE 172 Synthesizes knowledge from prerequisite courses and provides clinical application of theory presented in PTE 118.

1 Courses must be successfully completed to continue with the program

2 Course must be completed within 7 years of a possible start

3 Course may be completed either spring or summer semester for a fall start

Psychology, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Psychology prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts degree (BA) in psychology. Much of the coursework for BA and BS degrees in psychology tends to overlap (for example, social science requirements and core courses), but those with a BA degree are geared toward more modern scientific psychology – how we adapt to rapidly changing social and physical environments. Students who opt for the Bachelor of Arts in Psychology can choose to work in the human services field (crisis intervention or case management) or in business areas (human resources, personnel or management). Once a BA is completed, students may pursue a higher degree in psychology, if interested.

Program Description

This program introduces the student to the field of psychology and includes the coursework to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of psychology. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Psychology will be ready to complete the last half of a BA in Psychology at a four-year institution.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA degree with a designation in psychology, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (34-36 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT C03 course

Mathematics (3-4 Credits)

- One GT Pathways course (GT-MA1), prefer MAT 1260 - Introduction to Statistics: GT-MA1, except:

Colorado Mesa University

- Colorado Mesa University requires either MAT 1240; or MAT 1340;

Colorado State University-Pueblo

- Colorado State University-Pueblo prefers MAT 1340;

Fort Lewis College

- Fort Lewis college requires MAT 1260;

University of Colorado Boulder

- University of Colorado Boulder requires MAT 1340 or higher;

University of Colorado, Colorado Springs

- University of Colorado, Colorado Springs requires MAT 1340;

Western State Colorado University

- Western State Colorado University requires MAT 1340

Natural and Physical Sciences (7-8 Credits)

- One GT Pathways Biology course. Must be GT-SC1 course with lab
- One GT Pathways GT-SC1 course of the student's choosing.

Arts and Humanities (9 Credits)

No more than two courses from any one category

- Select three GT Pathways Arts & Humanities Courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- (Select two GT Pathways Social & Behavioral Science courses (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathway course (GT-HI1) *

Additional Required Psychology Courses (18 Credits)

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

- Three GT Pathways Psychology courses (GT-SS3) **Credits(s): 9** *

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Electives (6-8 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. Psychology; Developmental, Clinical, Sport Psychology, or Psychology emphasis)
- Colorado Mesa University (B.A. Psychology; Psychology or Counseling Psychology concentrations)
- Colorado State University-Pueblo (B.A. Psychology)
- Fort Lewis College (B.A. Psychology)
- Metropolitan State University of Denver (B.A. Psychology)
- University of Colorado, Boulder (B.A. Psychology)
- University of Colorado, Colorado Springs (B.A. Psychology)
- University of Colorado, Denver (B.A. Psychology)

- University of Northern Colorado (B.A. Psychology)
- Western State Colorado University (B.A. Psychology)

Psychology, AS (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Science Degree with Designation in Psychology prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Science degree (BS) in psychology. Much of the coursework for BA and BS degrees in psychology tends to overlap (for example, social science requirements and core courses), but BS degree graduates have a higher skill concentration in math, natural sciences and research methods. Students who opt for the Bachelor of Science in Psychology can find work with medical doctors, forensic psychologists, neuropsychologists and biologists. After a BS is completed, students may pursue a higher degree in psychology, if interested.

Program Description

This program introduces the student to the field of psychology and includes the coursework to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of psychology. Upon transfer, students from Pueblo Community College who have earned the Associate of Science (AS) Degree with Designation in Psychology will be ready to complete the last half of a BS in Psychology at a four-year institution.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AS degree with a designation in psychology, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (38 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

- ENG 1021 - English Composition I: GT-CO1 **Credit(s): 3**
  or
- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing course (GT-CO3) *

Mathematics (4 Credits)

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (10 Credits)

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

CHE 1111 - General College Chemistry I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and MAT 1340 or higher and (CHE 1011 or High School Chemistry)
Corequisite(s): ENG 1021
Formerly CHE 111 Focuses on basic chemistry and measurement, matter, chemical formulas, reactions, equations, stoichiometry, and thermochemisty. 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. The course includes gases, liquids, and solids and problem-solving skills are emphasized through laboratory experiments. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Arts and Humanities (9 Credits)

PHI 1011 - Introduction to Philosophy: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 111 Introduces significant theoretical and practical questions and emphasizes understanding the meaning and methods of philosophy. Includes: the human condition, logic, reality, knowledge, freedom, history, ethics, and religion. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

or

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

- (Plus six (6) additional credits from at least two different categories of GT Pathways Arts & Humanities courses: (GT-AH1, GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathway courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History course (GT-HI1) *

Additional Required Courses (9 Credits)

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological

psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 1002 - General Psychology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 102 Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Electives (13 Credits)

Determined by transferring institution

Transfer Degrees

Note: Students planning to transfer to University of Colorado Denver should complete both two-semester sequences of BIO 1111 & BIO 1112 and CHE 1111 & CHE 1112 at the community college; in addition, electives are restricted to non-Psychology courses.

This degree transfers to the following Colorado public four-year institutions of higher education:

- Colorado State University-Fort Collins (B.S. Psychology: General Psychology concentration)
- Colorado State University-Pueblo (B.S. Psychology)
- University of Colorado, Denver (B.S. Psychology)

Public Health, DwD

See list of Department Chairs on the Personnel page.

Total Credits: 60

Fall-Year 1 (15)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

Spring-Year 1 (17)

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PHI 1013 - Logic: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 113 Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem-solving.~~This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

Fall-Year 2 (14)

BIO 1112 - General College Biology II with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 112 Examines the fundamental principles of ecology, evolution, classification, structure, and function in plants and animals. This course includes a laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 231 Critically examines various deviant categories and societal reactions to deviance affecting diverse populations. Examines how sociologists study deviance and the theories they use to explain it. Explains the ways social institutions define deviance and attempt to control, change, or treat those deviant behaviors, attitudes, and conditions. GT-SS3

LIT 1015 - Introduction to Literature I: GT-AH2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021.
Formerly LIT 115 Introduces fiction, poetry, and drama. This course emphasizes active and responsive reading. This is a statewide Guaranteed Transfer course in the GT-AH2 category. GT-AH2

PSY 2221 - Social Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 226 Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Spring-Year 2 (16)

PSY 2552 - Abnormal Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Corequisite(s): PSY 1001 or Department Chair Approval.
Formerly PSY 249 Examines abnormal behavior and its classification, causes, treatment, and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2222 - Psychology of Death and Dying: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English

Formerly PSY 227 Examines philosophies of life and death emphasizing dying, death, mourning, and the consideration of one's own death. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

PSY 2333 - Health Psychology: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 240 Focuses on an overview of the scientific study of attitudes, behaviors, and personality variables related to health, illness, and bodily systems. The course emphasizes the interaction of biological, psychological, and social factors that cause illness and influence its treatment and prevention. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 2005 - Sociology of Family Dynamics: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 205 Offers a critical exploration of marriage, family and kinship. It examines the family as an institution and how social, cultural and personal factors influence family relations locally and globally. Explores the stability and evolution of the family, along with current trends and a range of family forms. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

BIO 2104 - Microbiology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 OR BIO 1010
Formerly BIO 204 Covers the diversity of microorganisms, their structure, physiology, and the identification process. There is an emphasis on microorganisms that cause infectious disease and the process of infection, host immune responses, and methods to control microorganisms. Laboratory experiences include culturing, identifying, and controlling microorganisms. This course is designed for students pursuing a health science field. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Radiologic Technology BAS

See list of Department Chairs on the Personnel page.

Applicants must meet the following criteria:

- AAS in Radiologic Technology from a regionally accredited institution in radiologic technology
- Registered Radiologic Technologists with American Registry of Radiologic Technologist (AART) in good standing
- Minimum cumulative GPA of 2.00 (C) for all course work completed
- College transfer courses accepted for program entry require a cumulative GPA of 2.00 (C) on a 4.00 scale in related course work
- Meet PCC admissions criteria

Program Requirements:

The Bachelor's in applied Science Degree consists of 120 credit hours with transfer of AAS and general education courses.

BAS general education credits need to total a minimum of 30 credits

RTE AAS transcripts will be evaluated—credit amount will vary depending on the awarding institution

Students can receive prior learning credits for current registries

Additional 300/400 level courses earned through PCC

Any remaining credit hour can be earned through electives if necessary

Graduation Requirements

Students can use a combination of transcripted credits, prior learning assessment, current registry/certificates and additional bachelor level course work at Pueblo Community College to obtain the 120 credits required.

A minimum of 30 credits must be completed at PCC.

Students must complete all courses in their chosen track (MRI or CT) and all general education courses with a grade of C or better.

Internship Requirements

Documentation of current license

Evidence of current CPR

Evidence of professional liability insurance

Documentation of immunizations

Successful background check

Meet requirements of receiving institution

Total Credits: 120

Fall Semester (12 credits)

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations,

muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

PHY 1105 - Conceptual Physics with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly PHY 105 Focuses on mechanics, heat, properties of matter, electricity and magnetism, and light. Incorporates laboratory experience. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

Spring Semester (14 credits)

MRI Tract

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

RTE 3011 - Sectional Anatomy for Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 311 Identifies anatomy in various imaging planes of advanced modalities. Compares normal anatomy with gross pathology on advanced cross-sectional images. Evaluation of anatomy and pathology will include head, spine, thorax, abdomen/pelvis and extremities.

RTE 3021 - Theory and Application of MR Imaging I

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 321 Applies the fundamental principles of MRI in order 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.

HPR 4011 - Leadership and Management in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 411 Provides a general overview of the concepts and theories relative to leadership and management in health care settings. This course covers concepts in decision-making models, ethical reasoning skills, effective communication, interpersonal and inter-professional relationships, management of human and fiscal resources, risk management, and quality improvement.

CT Tract

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

RTE 3011 - Sectional Anatomy for Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 311 Identifies anatomy in various imaging planes of advanced modalities. Compares normal anatomy with gross pathology on advanced cross-sectional images. Evaluation of anatomy and pathology will include head, spine, thorax, abdomen/pelvis and extremities.

RTE 3041 - Theory and Application of CT Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.

Formerly RTE 341 Applies the fundamental and advanced principles of Computed Tomography (CT) in order to perform clinical CT examinations of the human body with special consideration to image production, quality control, terminology, basic procedural steps and MRI equipment and safety.

RTE 3051 - CT Protocols and Procedures

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 351 Covers the skill and knowledge necessary to perform supplemental procedures for imaging various anatomical structures including the head, spine, chest, abdomen, pelvis and extremities utilizing Computed Tomography. It provides instruction on gross pathological conditions demonstrated on CT images.

HPR 4011 - Leadership and Management in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 411 Provides a general overview of the concepts and theories relative to leadership and management in health care settings. This course covers concepts in decision-making models, ethical reasoning skills, effective communication, interpersonal and inter-professional relationships, management of human and fiscal resources, risk management, and quality improvement.

Summer Semester (8 credits)

MRI Tract

RTE 4031 - Advanced MRI Protocols and Procedures

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): RTE 3031.
Formerly RTE 431 Examines specialized advancements in MRI. Emphasis will be placed on the heart and vasculature, functional imaging, contrast agents and their uses, enterography, pelvic run-off and breast imaging.

RTE 3081 - Internship: MRI I

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 381 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

RTE 3012 - IV Certification for Contrast Medium

Credit(s): 1
Lecture Hour(s): 0.50
Clinic Hour(s): 1

Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 312 Prepares the student to perform IV contrast administration including knowledge of arterial and venous anatomy, appropriate puncture sites, necessary equipment and supplies, understanding of different contrast media, injectors and administration safety.

CT Tract

RTE 4051 - Advanced CT Protocols and Procedures

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 3051.
Formerly RTE 451 Provides the skill and knowledge necessary to perform advanced specialty procedures for imaging various anatomical structures utilizing Computed Tomography. It distinguishes vascular anatomy and incorporates contrast media injections and contraindication into complex imaging studies.

RTE 3012 - IV Certification for Contrast Medium

Credit(s): 1
Lecture Hour(s): 0.50
Clinic Hour(s): 1

Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 312 Prepares the student to perform IV contrast administration including knowledge of arterial and venous anatomy, appropriate puncture sites, necessary equipment and supplies, understanding of different contrast media, injectors and administration safety.

RTE 3082 - Internship: CT I

Credit(s): 4
Internship Hour(s): 12
Prerequisite(s): AAS in Radiologic Technology and ARRT Registered.
Formerly RTE 382 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Fall Semester (13 credits)

MRI Tract

RTE 4021 - Theory and Application of MR Imaging II

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 3021.
Formerly RTE 421 Examines in-depth knowledge of designing MRI pulse sequences, data manipulation, artifacts and quality control and quality assurance procedures. Special consideration will be given to methods to shorten scan time, k-space filling and reconstruction, Fast Fourier Transform and image transfer and storage systems used in healthcare facilities.

RTE 4031 - Advanced MRI Protocols and Procedures

Credit(s): 1
Lecture Hour(s): 1
Prerequisite(s): RTE 3031.
Formerly RTE 431 Examines specialized advancements in MRI. Emphasis will be placed on the heart and vasculature, functional imaging, contrast agents and their uses, enterography, pelvic run-off and breast imaging.

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

RTE 4081 - Internship: MRI II

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 3081.
Formerly RTE 481 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

CT Tract

MAN 2025 - Managerial Finance

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 225 Examines the concepts and techniques used to analyze financial accounting information for managerial planning, decision-making, and control. Additionally, the course discusses decision-making relating to the areas of budgets, forecasts, cost volume production, Return on Investment (ROI) and financial statements.

OR

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

RTE 4082 - Internship: CT II

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 3082.
Formerly RTE 482 Provides students an opportunity to gain practical experience in applying their nursing skills and/or to develop specific skills in a practical work setting. The instructor will work with the student to select an appropriate work site, establish learning objectives and to coordinate learning activities with the practicum supervisor.

Miscellaneous Information

[1] One credit elective course to be used if additional course work is required for applicant

[2] Students are required to complete either HPR 411 Leadership & Management in Health Professions **OR** HPR 468 Pedagogy in Health Professions

[3] Offered in the first eight (8) weelks

[4] Offered in the second eight (8) weeks

Radiologic Technology, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

The Radiologic Technology program prepares you for a career in radiologic technology (radiography). As a graduate of the program, you are eligible to take the American Registry of Radiologic Technologists (ARRT) national certification examination in radiography. You will specialize in radiographic procedures that demonstrate anatomy and pathologies on medical x-ray film, fluoroscopic screens and other electronic imaging devices. These images are, in turn, interpreted by radiologists and other physicians for the diagnosis and treatment of disease and injury.

Program Description

The AAS in Radiologic Technology prepares you to work as a critical member of today's health care team. We teach you important critical thinking/problem-solving techniques as well as interpersonal and communication skills that allow you to interact effectively with other health care team members, patients and families from a variety of professional, social, emotional, cultural and intellectual backgrounds. We provide you with the skills you need to work with highly complex medical imaging equipment, analyze acquired images for quality, assess patient condition and apply appropriate techniques of patient care and education, and achieve the highest degree of clinical competency. The program focuses on developing your intellectual abilities as well as the judgment you need to demonstrate a

professional attitude and demeanor, display the highest moral and ethical standards, and foster the safety of yourself and your patients.

Program Requirements

Entrance Requirements:

Prerequisite Requirements: ENG 1021, BIO 1006, MAT 1140, RTE 1001, HPR 1038

Graduation Requirements:

PSY 2440, Arts/Humanities. In addition, students must complete all required Clinical Competencies.

Total Credits: 77

Degree Requirements

* Indicates prerequisite courses for program entry.

General Education Requirements (16 Credits)

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1140 - Career Math

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 107 Covers material designed for career and technical students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, statistics, and graphs. These are presented at an introductory level and the emphasis is on applications.

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

or

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

- Arts/Humanities **Credit(s): 3**
  or
- Social and Behavioral Science **Credit(s): 3**

Related Requirements (3 Credits)

RTE 1001 - Introduction to Radiography

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): College Readiness in English
Formerly RTE 101 Introduces 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.

HPR 1038 - Introduction to Medical Terminology

Credit(s): 1
Lecture Hour(s): 1
Formerly HPR 138 Introduces the structure of medical terms with emphasis on using and combining the most common prefixes, roots, and suffixes. This course includes terms related to major body systems and provides accepted pronunciation of terms.

Core Curriculum Requirements (58 Credits)

Semester 1 – Fall

RTE 1011 - Radiographic Patient Care

Credit(s): 2
Lecture Hour(s): 2
Formerly RTE 111 Introduces the fundamentals of human diversity; and legal and ethical considerations. Includes lecture and laboratory experience in patient care, standard and transmission based precautions, asepsis versus non-asepsis, vital signs, venipuncture, medical emergencies, drug administration, patients with specific needs and end-of-life interactions.

RTE 1021 - Radiologic Procedures I

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly RTE 121 Introduces the fundamentals of radiographic equipment to safely obtain radiographs, apply radiation safety techniques, and identify related positioning terminology. This course emphasizes identification of anatomy, common pathology, and radiographic terminology of the upper extremities, chest, and abdomen.

RTE 1031 - Radiographic Pathology/Imaging Evaluation

Credit(s): 1.50
Lecture Hour(s): 1.50
Formerly RTE 131 Provides an introduction to the evaluation of the pathologies related to the respiratory, digestive, and urinary systems on a radiographic image.

RTE 1041 - Radiographic Equipment and Imaging I

Credit(s): 3
Lecture Hour(s): 3
Formerly RTE 141 Introduces the fundamental aspects of radiographic equipment including the basic concepts pertaining to x-ray production, x-ray equipment, and photon interactions with matter.

RTE 1081 - Internship: Radiographic I

Credit(s): 5
Internship Hour(s): 15
Formerly RTE 181 Introduces the clinical education experience at the healthcare facility. The course focuses on the application of knowledge to the actual practice of radiography.

Semester 2 – Spring

RTE 1022 - Radiologic Procedures II

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Prerequisite(s): RTE 1021
Formerly RTE 122 Reinforces the fundamentals of radiographic positioning of the extremities. This course introduces anatomy, pathology, and skills necessary to perform radiographic procedures of the spine, bony thorax, and abdominopelvic region.

RTE 1032 - Radiographic Pathology and Image Evaluation II

Credit(s): 1.50
Lecture Hour(s): 1.50
Prerequisite(s): RTE 1031
Formerly RTE 132 Provides an introduction to the evaluation of the pathologies related to the skeletal, circulatory, and nervous systems on radiographic image.

RTE 1042 - Radiographic Equipment and Imaging II

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): RTE 1041
Formerly RTE 142 Provides in-depth knowledge of scatter control, radiographic exposure technique, image acquisition, process, and fluoroscopy. Includes criteria and factors that affect image quality, quality assurance and healthcare informatics

RTE 1082 - Internship: Radiographic II

Credit(s): 5
Internship Hour(s): 15
Prerequisite(s): RTE 1081
Formerly RTE 182 Builds upon prior clinical internship experience to advance student proficiency in the practice of radiography in the healthcare facility. The course focuses on the application of knowledge to the actual practice of radiography.

Semester 3 – Summer

RTE 1083 - Internship: Radiographic III

Credit(s): 7
Internship Hour(s): 21
Prerequisite(s): RTE 1082
Formerly RTE 183 Reinforces and builds independence in the clinical internship experience. Applies radiographic knowledge learned in the classroom and prior clinical internship experience.

Semester 4 – Fall

RTE 2021 - Advanced Medical Imaging

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): RTE 1021
Formerly RTE 221 Offers advanced imaging techniques including radiographic procedures involving the skull, trauma, mobile, surgical, pediatric, special procedures and advanced modalities.

RTE 2031 - Radiation Biology/Protection

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): RTE 1041

Formerly RTE 231 Provides the basic knowledge and understanding of the biologic effects of ionizing radiation and radiation protection and safety.

RTE 2081 - Radiographic Clinical Internship IV

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): RTE 1083
Formerly RTE 281 Introduces the student to the radiographic specialty areas of Pediatrics, Geriatrics, the out-patient clinic, as well as increasing proficiency in general radiography.

Semester 5 – Spring

RTE 2082 - Radiographic Clinical Internship V

Credit(s): 8
Internship Hour(s): 24
Prerequisite(s): RTE 2081
Formerly RTE 282 Introduces the student to the radiographic specialty areas of pediatrics, geriatrics, the out-patient clinic, portable and trauma radiography as well as increasing proficiency in general radiography.

RTE 2089 - Capstone

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): RTE 2021 and RTE 2031
Corequisite(s): RTE 2082.
Formerly RTE 289 Prepares the radiologic technology student to sit for the American Registry of Radiologic Technologists (ARRT) certification examination through a comprehensive review of RTE program curriculum, with practice answering certification examination-type questions through the administration of multiple mock certification exams. Provides the student with the requisite skills to effectively search for a job in medical imaging.

Respiratory Therapy, AAS

See list of Department Chairs on the Personnel page.

Program Description

The AAS Degree prepares you to provide respiratory therapy to patients and educate them in their continuing care. In our off-campus scheduled clinical hours, you will provide respiratory therapy for patients under the supervision of preceptor or clinical instructor who is a licensed and credentialed respiratory therapist.

A respiratory therapist can provide care to patients by gathering patient data, performing a physical assessment, and making a diagnostic clinical treatment plan, which can include oxygen therapy, airway clearance therapy, aerosol therapy, medication delivery, airway management, arterial blood sampling, and most importantly invasive and non-invasive mechanical ventilation.

Because of the high level of personal and profession responsibility required of a respiratory therapist, you must have integrity, maturity, individual motivation, good interpersonal skills, excellent manual dexterity, and a solid science and

general studies academic background to be successful in this program. We are firmly committed to fostering your intellectual growth and to developing well-qualified respiratory therapists with high professional standards and ethics.

The Respiratory Therapy program has a selective admissions process. The link for the online program application and admission requirements are posted on the Respiratory Therapy webpage now—June 1. All Health & Public Safety programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for licensure exams.

Total Credits: 74.5

General Education

Applicants must have all five (5) pre-requisites in process or completed at the time of application. All five (5) pre-requisites must be complete before the first fall program semester with a "C" or higher.

Fall (11 credits)

BIO 1111 - General College Biology I with Lab: GT-SC1

Credit(s): 5
Lecture Hour(s): 4
Academic Lab Hour(s): 2
Prerequisite(s): College Readiness in English and Quantitative Literacy Math
Formerly BIO 111 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 is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

OR

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Spring (8 credits)

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 2101
Formerly BIO 202 Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: endocrine, cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving microscopy, observations, and dissection. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): BIO 1111 or BIO 1010
Formerly BIO 201 Focuses on an integrated study of the human body including the histology, anatomy, and physiology of each system. Examines molecular, cellular, and tissue levels of organization plus integuments, skeletal, articulations, muscular, and nervous systems. Includes a mandatory hands-on laboratory experience covering microscopy, observations, and dissection. This is the first semester of a two-semester sequence. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

Core Curriculum Requirements

Apply to program by June 1

First Fall (12 credits)

RCA 1005 - Introduction to Respiratory Care

Credit(s): 1
Lecture Hour(s): 1
Formerly RCA 105 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 1041 - Basic Techniques in Respiratory Care

Credit(s): 5
Lecture Hour(s): 2
Vocational Lab Hour(s): 4.5
Prerequisite(s): Program admission
Formerly RCA 141 Introduces the principles and practices of respiratory therapy; including 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, the application of medical gases to the cardiopulmonary patient, and the application of high flow oxygen therapy to the cardiopulmonary patient.

RCA 1051 - Cardiopulmonary Anatomy and Physiology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Department Approval Required
Formerly RCA 151 Examines the cardiopulmonary anatomy and physiology related to respiratory therapy. This course also includes the study and analysis of the functional interrelationships between the pulmonary and cardiovascular systems.

RCA 1056 - Application of Science in Respiratory Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to the program.
Formerly RCA 156 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.

First Spring (13 credits)

RCA 1032 - Basic Techniques in Respiratory Care II

Credit(s): 5
Lecture Hour(s): 3
Vocational Lab Hour(s): 3
Prerequisite(s): RCA 1041 or consent of the instructor
Formerly RCA 132 Introduces the principles and practices of respiratory therapy, to include the study and application of aerosol therapy for medication delivery, airway clearance, and lung expansion techniques to promote bronchial hygiene for patients with cardiopulmonary disease pathologies.

RCA 1053 - Cardiopulmonary Disease and Pathology

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Program admission.
Formerly RCA 153 Covers the pathological abnormalities and clinical manifestations associated with cardiopulmonary diseases. This course includes the study of patient assessment, treatment modalities, and management for both chronic and acute cardiopulmonary diseases.

RCA 1066 - Monitoring and Diagnostics of the Cardiopulmonary Patient

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Program admission.
Formerly RCA 166 Provides the student an introduction to the monitoring and diagnostics for the cardiopulmonary patient, to include an analysis of the various clinical procedures, laboratory tests, and monitoring devices.

RCA 1010 - Pharmacology of Respiratory Therapy

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Department approval required
Formerly RCA 110 Introduces pharmacology associated with respiratory therapy, to include the study and application of prescribed medications for the indications, administration, adverse reactions and calculations; a study of specific topics include patient education of medication delivery devices, patient monitoring devices, utilization techniques, and the standards for therapeutic efficacy in relation to asthma, chronic obstructive pulmonary disease, and smoking cessation.

Summer (6.5 credits)

RCA 2035 - Mechanical Ventilation I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): Department approval required
Formerly RCA 235 Introduces the principles and practices of invasive and non-invasive mechanical ventilation, to include the study of respiratory failure and physiological effects of mechanical ventilation. This course covers the management of equipment for various types of mechanical ventilator systems.

RCA 2070 - Clinical I

Credit(s): 4.5
Clinic Hour(s): 13.5

Prerequisite(s): Department approval required.
Formerly RCA 270 Offers the clinical practicum required for the program.

Second Fall (12 credits)

RCA 2036 - Mechanical Ventilation II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Prerequisite(s): Department approval required. Elaborates on the principles and practices of mechanical ventilation in high-risk situations, to include the study of ventilator graphics, management of patient asynchrony with ventilator support, and long-term mechanical ventilation.
Formerly RCA 236 Elaborates on the principles and practices of mechanical ventilation in high-risk situations, to include the study of ventilator graphics, management of patient asynchrony with ventilator support, and long-term mechanical ventilation.

RCA 2046 - Neonatal and Pediatric Respiratory Care

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required
Formerly RCA 246 Introduces the theory and principles of respiratory therapy unique to pediatric and neonatology. This course examines fetal development, prenatal and antenatal assessment, and high risk delivery. Including the analysis of anatomy and physiology, clinical assessment, therapeutic modalities, and cardiopulmonary disorders for neonatal and pediatric patients.

RCA 2071 - Clinical II

Credit(s): 8
Clinic Hour(s): 24

Prerequisite(s): Department approval required.
Formerly RCA 271 Offers the clinical practicum required for the program.

Second Spring (12 credits)

RCA 2072 - Clinical III

Credit(s): 8
Clinic Hour(s): 24

Prerequisite(s): Department approval required.
Formerly RCA 272 Offers the clinical practicum required for the program.

RCA 2065 - Professional Development

Credit(s): 2
Lecture Hour(s): 2
Corequisite(s): RCA 2083 or consent of instructor.
Formerly RCA 265 Reviews the respiratory therapy concepts, theory, and therapeutic applications covered within the program curriculum to prepare for the national credential examination, job placement, and state licensure requirements.

RCA 2066 - Advanced Monitoring and Diagnostics of the Cardiopulmonary Patient II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Prerequisite(s): Program admission.
Formerly RCA 266 Provides the student with an advancedopportunity for analysis and the monitoring and diagnosis of the cardiopulmonary patient, to include current medical diagnostic procedures, laboratory testing, and advance monitoring equipment.

Respiratory Therapy, BAS

See list of Department Chairs on the Personnel page.

This program is designed for licensed and registered respiratory therapists who have completed an Associate Degree in Respiratory Therapy from an accredited (Commission on Accreditation for Respiratory Care; CoARC) program and wish to continue their education and obtain a Bachelor of Applied Science degree. Students will receive 5 to 25 Prior Learning Assessment (PLA) credits for Registered Respiratory Therapy (RRT) and current state licensure. This program provides a student centered on-line learning environment meant to enhance career opportunities. The students will engage in self-directed learning activities and gain specialized knowledge utilizing critical thinking, personal inquiry and reflective practice.

Admission Requirements:

Applicants must meet the following criteria:

- Graduated from an accredited respiratory care program (Commission on Accreditation of Respiratory Care (CoARC)
- Hold a current respiratory therapy license in any state
- Hold a current credential from the National Board of Respiratory Care (NBRC) as a Registered Respiratory Therapist (RRT)
- Have a cumulative GPA of 2.5 for Respiratory Therapy degree and all other required pre-requisite courses must be completed at a "C" level or better.
- Meet PCC admissions criteria

Program Requirements

- The Bachelor's in Applied Science Degree consists of 120 credit hours with the transfer of AAS and general studies courses.
- General studies courses take as AAS: (19 credit hours)
- RCA specific coursework taken as part of AAS in Colorado (54.5 credit hours)
- Additional 300/400 level courses earned through PCC (BAS RT – 28 credit hours)
- A total of 30 credits in general education between the AAS and BAS degree with a minimum of 15 credits in GT pathway designation. Including possible block transfer/Prior Learning Assessment (PLA) for Respiratory Therapy AAS degree, NBRC Registered Respiratory Therapist and current state licensure.
- Any remaining credit hours can be earned through electives if necessary.
- Transferring students from outside the CCCS system will have transcripts evaluated for meeting admissions requirements

Total Credits: 120

Respiratory Therapy-Degree Transfer Credits

Respiratory Therapy, AAS

Fall -- 15

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to

illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OR

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

HPR 4003 - Critical Review of Healthcare Research

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program

Formerly HPR 403 Covers the identification, evaluation, and analysis of scientific published literature necessary to identify healthcare best practices, the formulation of research for clinical questions for effective participation in healthcare discussions and evidence-based decision-making.

HPR 4038 - Pedagogy in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 468 Provides a general overview of the concepts and theory relative to education in health professions. The course will introduce concepts in developing outcome centered objectives, syllabus, lesson planning, content delivery, test construction, and assessing student learning. The course explores various learning styles and technology available for delivery of course content.

RCA 4001 - Sleep Medicine

Credit(s): 3
Lecture Hour(s): 3
Formerly RCA 401 Develops a working knowledge in sleep medicine for health care professionals by reviewing and identifying diagnostic procedures, therapeutic interventions, and sleep disorders.

RCA 4000 - Current Topics in Pulmonary Disease

Credit(s): 3
Lecture Hour(s): 3
Formerly RCA 400 Analyze current issues related to respiratory disease, including pathophysiology, management, and outcomes.

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

HPR 4011 - Leadership and Management in Health Professions

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 411 Provides a general overview of the concepts and theories relative to leadership and management in health care settings. This course covers concepts in decision-making models, ethical reasoning skills, effective communication, interpersonal and inter-professional relationships, management of human and fiscal resources, risk management, and quality improvement.

HPR 3010 - Quality Improvement in Health Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): Admission to BAS program
Formerly HPR 310 Introduces approaches to assessing risk and improving health care quality through the practice of Continuous Quality Improvement (CQI). Course explores the conceptual framework for quality improvement, a focus on quality improvement as a strategy to manage cost, boost productivity, and enhance quality outcomes in various health care settings. The course will focus on both conceptual understanding and experiential learning.

RCA 4002 - Advanced Concepts in Respiratory Therapy

Credit(s): 3
Lecture Hour(s): 3
Formerly RCA 402 Evaluates and analyzes current monitoring and diagnostic procedures for the cardiopulmonary patient in the acute and non-acute care settings with an emphasis on quality control, correlation of patient data, application of technology, and analysis of therapeutic protocols and procedures.

- Choose GT course in college catalog. **Credit(s): 3**[3]

Summer -- 7

HPR 3001 - Communications in Health Care

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HPR 301 Develops professional written and oral communication plans to ensure effective patient-centered outcomes between health care professionals, patients and caregivers.

RCA 4078 - Senior Seminar

Credit(s): 2
Lecture Hour(s): 2
Formerly RCA 478 Senior seminar for respiratory care creating a senior project that applies knowledge and concepts through the use of problem-based learning methods in the research and evaluation of industry best practices.

HPR 4089 - Inter-Professional Capstone

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): Department approval required.
Formerly HPR 489 Provides a demonstrated culmination of learning within a given program of study.

Notes

[1] Courses taught in the first 8 weeks of the semester

[2] Courses taught in the second 8 weeks of the semester

[3] GT Pathway courses can be found in the College Catalog

[4] Also offered spring semester

[5] Also offered fall semester

Safety and Leadership

See list of Department Chairs on the Personnel page.

Program Description

This certificate provides training so employees can manage safety protocols within an industrial environment. The student will learn how to incorporate safety into the culture of the facility from a managerial perspective. Current employees can earn this certificate to upscale their skill sets for an advancement. It is also a stackable certificate that illustrates the attainment of critical skills in the industry.

Total Credits: 12

MAN 1028 - Human Relations in Organizations

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 128 Introduces interpersonal relations most directly linked to attainment of organizational and individual goals in the business world. Other factors include motivation, career development, and conflict resolution. It explores the importance of effective communication in organizations. Addresses organizational issues such as employee motivation and customer complaints as related to product or service defects.

MAN 2024 - Leadership

Credit(s): 3
Lecture Hour(s): 3
Formerly MAN 224 Focuses on the leadership skills for contemporary organizations. Covers development and communication a shared vision to motivate and empower employees to manage conflict, to negotiate, and to develop teams.

MTE 1110 - Applied Communication and Teamwork in Industry

Credit(s): 3
Lecture Hour(s): 3
Formerly MTE 110 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.

OSH 2110 - Safety Program Management

Credit(s): 3
Lecture Hour(s): 3
Formerly OSH 245 Provides principles of safety program management, to include program elements, safety culture, motivation, ethics, and auditing.

Secure Software Development BAS

Computer Information Systems

See list of Department Chairs on the Personnel page.

Bachelor of Applied Science -- Secure Software Development

120 Credit Hours

Total Credits: 120

General Educaton (30 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or apppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

- Choose one CCCS GT-SC1 **Credit(s): 4**

ECO 2001 - Principles of Macroeconomics: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly ECO 201 Focuses on the study of the national economy, emphasizing business cycles and long-run growth trends. Explores how macroeconomic performance is measured, including Gross Domestic Product and labor market indicators. Examines the saving-investment relationship and its relationship to Aggregate Supply and Aggregate Demand. Discusses money and banking, international trade, fiscal and monetary policy. Explores the macroeconomic role of the public sector. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

- Choose General Education Electives **Credit(s): 13**

Lower Division (51 credits)

CIS 2020 - Fundamentals of Unix

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 220 Explores the structure and fundamentals of the Unix operating system including the file system and file processing, various utility programs, shell, multi-user operation, text processing, and communications.

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CIS 2087 - Cooperative Education

Credit(s): 1-12
Internship Hour(s): 3-36
Formerly CIS 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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 1031 - Principles of Information Assurance

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 131 Provides skills and knowledge required to survey key issues associated with protecting information assets, determine the levels of protection and response to security incidents, and design a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. Students learn to inspect and protect information assets, detect and react to threats to information assets, and examine pre- and post-incident procedures, and technical and managerial responses. Students learn about information security planning and staffing functions.

CNG 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts.

Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CNG 2012 - Configuring Windows Server

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CNG 1001 or CNG 1024
Formerly CNG 212 Provides students with the knowledge, skills, and abilities to install, configure and safely administer a Microsoft Windows Server. This class prepares the student for current industry certification.

CSC 1029 - Introduction to Secure Coding

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1060
Formerly CSC 129 Focuses on introduction to secure coding. Emphasizes concepts, principles, and best practices of structured secure programs within security standards. Analysis of design of secure programming is stressed, including costs, threats, security concepts, policies, coding flaws, vulnerabilities, exploits, and code mitigation. Analysis of the design of legacy and contemporary object oriented languages is emphasized. Focuses on the application of secure coding principles, standards to resolve code flaws and vulnerabilities.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

CSC 2041 - Advanced Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 2040 or CSC 1060
Formerly CSC 241 Covers advanced programming topics including multi-threading, network/internet programming, database programming, and JavaBeans. This course focuses on writing Java Enterprise Edition (Java EE) complex programs.

CSC 2045 - Secure Software Development: (Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1029 and CSC 1061
Formerly CSC 245 Focuses on functionality when implementing security consequences with regard to formatted output and arithmetic operations in a program. The course introduces how to write a program that creates safe, reliable, and secure systems free from undefined program behaviors and exploitable vulnerabilities.

CSC 2046 - Mobile App Development

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 246 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 2067 - Object-Oriented Analysis and Design

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 267 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.

CWB 2005 - Client-Side Scripting: (Software)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 205 Explores the client-side programming skills necessary to create dynamic web content using a markup embeddable and procedural scripting language executed on the client web browser.

Upper Division (39 credits)

CSC 3000 - Advanced Computer Architecture

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2025 and CSC 2045
Formerly CSC 300 Covers the analysis of advanced concepts in the applications of computer architecture and programming capabilities with keyboard and display controllers within programs. This course investigates the impact of exceptions and interrupts within a simulator, examines the hazards associated with a pipelined datapath, and uses the analysis of floating-point instructions.

CSC 3020 - Software Engineering Fundamentals

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045
Formerly CSC 320 Focuses on the skills necessary to analyze, design, and implement software engineering projects. The course includes software engineering standards and processes, qualitative aspects including maintainability, extensibility, reusability, and robustness in every stage of the software-engineering life-cycle.

CSC 3022 - Security Fundamentals and Databases

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045 and CIS 2040 and CIS 2043
Formerly CSC 322 Examines the vulnerabilities of databases to attack. Functional requirements and security testing, focusing on the interaction between a software user and the application, are analyzed. This course will investigate database platforms and provide database developers with an understanding of database development best practices for optimum security.

CSC 3024 - Secure Coding Vulnerabilities I

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045
Formerly CSC 324 Focuses on analyzing and implementing software vulnerabilities. This course explores vulnerabilities through code evaluation and implementation of language-specific solutions.

CSC 3026 - Secure Scripting of Operating Systems

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1029 and CIS 2020
Formerly CSC 326 Focuses on analyzing and configuring an environment and assessing configuration variables in multiple operating systems. Topics include using multiple utilities in order to assimilate information on a network, host and data communications, and creating scripts for evaluation.

CSC 3028 - Security Libraries in Programming Languages

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1029
Formerly CSC 328 Focuses on the issues surrounding security libraries within programming languages. This course analyzes static typing within a software program to assess integrity within a given programming library. The course will also explore what effect mutable resources have on security, along with encryption tools, and violation channels.

CSC 4022 - Secure Software Engineering

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045
Formerly CSC 422 Focuses on the analysis and functionality of defective software and how to develop and implement secure software. The analysis performed by software engineers in order to detect, repair, and maintain safe systems will also be covered.

CSC 4024 - Secure Code Vulnerabilities II

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 3024
Formerly CSC 424 Focuses on advanced implementation of software vulnerabilities. This course covers attack vectors frequently used by malicious actors such as email attachments, compromised "watering hole" websites, and other tools often relied on to take advantage of unpatched vulnerabilities found in widely-used software applications. Patching techniques will be deployed in order to repair vulnerabilities found in software components.

CSC 4026 - Secure Cloud Programming

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045
Formerly CSC 426 Focuses on analyzing and implementing secure applications in the cloud. Topics covered will include designing and implementing applications via the cloud with a focus on security policies, analyzing computer models with recommendations to reduce the risks and security challenges surrounding programming, and data security within the cloud.

CSC 4028 - Software Security Testing

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 2045
Formerly CSC 428 Focuses on testing software as it pertains to vulnerabilities within operating systems, libraries, and cloud applications. Topics covered include implementing testing environments through analytical assessments using tools that detect software inefficiencies and using reliable solutions in order to reduce security risks.

Secure Software Development Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The CIS program prepares you for careers in computers cience, computer networking, and electronic commerce. The AAS Degree with an emphasis in local area networking prepares you to work as a network technician on small and large networks. You may also administer smaller networks as a System Administrator. The AGS Degree with an emphasis in Computer Information Systems prepares you to transfer to a university to continue studies in Computer Science or Computer Information Systems.

Program Description

The CIS program provides training in basic technical computer and networking skills. You will study computer networking, programming and database technologies along with classes that teach the technical aspects of the Internet and data communications. Note: Students interested in transferring to a baccalaureate program in Computer Information Systems should refer to the Transfer Degree Section.

Total Credits: 30

Certificate Requirements

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340

Formerly CSC 160 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 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

CSC 1029 - Introduction to Secure Coding

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1060
Formerly CSC 129 Focuses on introduction to secure coding. Emphasizes concepts, principles, and best practices of structured secure programs within security standards. Analysis of design of secure programming is stressed, including costs, threats, security concepts, policies, coding flaws, vulnerabilities, exploits, and code mitigation. Analysis of the

design of legacy and contemporary object oriented languages is emphasized. Focuses on the application of secure coding principles, standards to resolve code flaws and vulnerabilities.

CSC 2025 - Computer Architecture/Assembly Language Programming

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1061
Formerly CSC 225 Covers how a computer operates and the relationship between machine code and the primary computer components. The course explores the design of the processor, registers, memory, and various types of storage. Assembly language is used for computer processes commands and how programming languages use memory addresses. Overview of architecture that is in development will be discussed.

Electives (select 3 credits):

CSC 2017 - Advanced Python Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): ((CSC 1019 or CSC 1020) and MAT 1340 or higher) or CSC 1060
Formerly CSC 217 Continues program development and problem solving not covered in CSC 1019: Introduction to Programming. Students will create larger programs in the areas of advanced expression, iterator objects, parsing, and GUI applications.

CSC 2030 - C Programming: Platform

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CSC 1019 and CSC 1060
Formerly CSC 230 Prepares students to be a better programmer using the C programming language. C is a mid-level language whose economy of expression and data manipulation features allows a programmer to deal with the computer at a low level. The goal is to learn skills that are usable in many languages and understand what is happening at the machine level. The student should already understand the control structures selection, iteration, and subroutines (functions/methods).

CSC 2040 - Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060 or CSC 2017
Formerly CSC 240 Introduces the Java Platform, Standard Edition (Java SE), to develop Graphical User Interface (GUI) applications. Language constructs will include loops, conditionals, methods, and arrays. The code will incorporate event and exception handling, File I/O, and Object-Oriented Programming (OOP) concepts.

CSC 2041 - Advanced Java Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 2040 or CSC 1060
Formerly CSC 241 Covers advanced programming topics including multi-threading, network/internet programming, database programming, and JavaBeans. This course focuses on writing Java Enterprise Edition (Java EE) complex programs.

Social Work, AA (with Transfer Articulation Agreement)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts degree with an emphasis in Social Work prepares students to transfer as a junior to a four-year institution in order to earn a bachelor's degree in social work. Social workers are professionals who are specially trained to work with people to provide a variety of services to individuals, families, groups or even communities. Social workers are employed in many different settings including schools, corrections, victims programs, child welfare, nursing homes, foster care agencies, domestic violence shelters and homeless programs.

Program Description

This program introduces students to the field of social work and includes general education requirements as well as specific courses in the area of social work. The courses included in this program are part of an articulation agreement with Colorado State University-Pueblo. Upon transfer to CSU-Pueblo, students who have earned the AA degree with an emphasis in social work will be ready to apply for admission to the social work program.

Program Requirements

Students interested in the field of social work should be aware that social workers must adhere to a strict code of ethics and values that are meant to protect the dignity and worth of clients and the profession. Social work students should be prepared to challenge their own attitudes, values and beliefs in order to be successful in the field.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathways Courses*

General Education Requirements (38 Credits)

Communication (9 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3

Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

Mathematics (3 Credits)

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Natural and Physical Sciences (8 Credits)

BIO 1005 - Science of Biology with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 105 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, and the impact of biological science on society. This course includes a laboratory experience. Designed for non-science majors. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GC-SC1

- Select one additional GT Pathways Natural and Physical Science course. The course must include a laboratory component (GT-SC1) *

Arts and Humanities (9 Credits)

PHI 1012 - Ethics: GT-AH3

Credit(s): 3
Lecture Hour(s): 3
Formerly PHI 112 Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category. GT-AH3

- Select two additional GT Pathways courses from either Arts and Expression, Literature and Humanities, Ways of Thinking **or** Foreign Languages (GT-AH1, AH2, AH3, **or** AH4) *

Social and Behavioral Sciences (9 Credits)

HIS 1220 - United States History Since the Civil War: GT-HI1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly HIS 122 Explores trends within events, peoples, groups, ideas, and institutions since the American Civil War. This course focuses on developing, practicing, and strengthening skills historians use while constructing knowledge and studying a diverse set of narratives through perspectives such as gender, class, religion, and ethnicity. This is a statewide Guaranteed Transfer course in the GT-HI1 category. GT-HI1

PSC 1011 - American Government: GT-SS1

Credit(s): 3
Lecture Hour(s): 3
Formerly POS 111 Explores the origins, development, structure, and functions of the American Constitution and national government. This course examines federalism, civil liberties, civil rights, electoral processes, and mechanisms of civic participation and influence. This is a statewide Guaranteed Transfer course in the GT-SS1 category. GT-SS1

PSY 1001 - General Psychology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 101 Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning, and memory. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Electives (28 Credits)

AAA 1009 - Advanced Academic Achievement

Credit(s): 3
Lecture Hour(s): 3
Formerly AAA 109 Examines theories and practices associated with successful learning to enhance college success.

Techniques covered include academic proficiency, personal management, effective collegiate communication, critical and creative thinking, development of community, awareness of diverse identities, and educational and career planning.

ETH 2024 - Introduction to Chicano Studies

Credit(s): 3
Lecture Hour(s): 3
Formerly ETH 224 Introduces students to skills development in multicultural education. Covers Chicano history, migration and labor, education, law and Chicano culture.

HWE 1062 - Health and Wellness

Credit(s): 3
Lecture Hour(s): 3
Formerly HWE 111 Explores the six components of wellness: physical, social, intellectual, spiritual, emotional, and occupational. Topics include health risks, wellness behaviors, and personal behavior change in the areas of nutrition; exercise; substance abuse; stress management; cardiovascular and cancer risk factors; the aging process; and violence, death, and dying in our society. Provides tools to complete self-assessments and develop a wellness program for a healthier lifestyle across a lifespan.

PSY 2440 - Human Growth and Development: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly PSY 235 Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SWK 1000 - Introduction to Social Work

Credit(s): 3
Lecture Hour(s): 3
Formerly SWK 100 Introduces students to the philosophy of the social work profession including the knowledge, values, ethics, roles and skills inherent to generalist social work.

SWK 2010 - Human Behavior in the Social Environment I

Credit(s): 3
Lecture Hour(s): 3
Formerly SWK 201 Focuses on the person in the environment throughout the life span with an examination of the relationship between biological, psychological, social, spiritual and cultural systems.

SWK 2020 - Human Behavior in the Social Environment II

Credit(s): 3
Lecture Hour(s): 3
Formerly SWK 202 Focus in this course is on an understanding and analysis of larger social systems which include the family, groups, communities and organizations. Emphasis is on social systems as an organizing theoretical framework for understanding social functioning and change.

SWK 2050 - Social Welfare in the U.S.

Credit(s): 3
Lecture Hour(s): 3
Formerly SWK 205 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.

WST 2000 - Introduction to Women's Studies: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly WST 200 Explores the interdisciplinary field of women's studies. This course is an examination of the following topics: the historical basis of gender inequality; the history of social movements for gender equality and women's studies; women's achievements throughout history in various professional and academic fields; women's social, economic, religious, health and political status in the U.S. and around the globe; gender relations; intersectionality; cultural, media and artistic representations of women. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer Courses, GT-SS3.

Sociology, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts Degree with Designation in Sociology prepares students to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts degree (BA) in sociology. Students who opt for a bachelor's degree in sociology may choose to work in the criminal justice system, business and industry, research and planning, agencies, government, education or advocacy. Once a BA is completed, students may pursue a higher or graduate degree in sociology if interested.

Program Description

The Associate of Arts Degree with Designation in Sociology includes the course work to meet general education requirements that are common to all Colorado four-year institutions. The degree is designed for students who want to transfer to a four-year college or university to pursue a bachelor's degree in sociology. Completion of the AA degree completes the first two years of a bachelor's degree and guarantees transfer at junior standing with no more than 60 remaining credits to meet the graduation requirements for a bachelor's degree in sociology.

Program Requirements

In addition to the requirements listed below, you must:

a. Earn a minimum of 60 semester hours of course work
b. Earn a minimum of 15 graded semester hours at PCC
c. Earn a minimum of "C" in all coursework for the degree

Consult with a PCC Arts and Sciences advisor or transfer advisor to find out which Colorado Statewide Guaranteed Transfer Courses (GT Pathways) or elective courses meet the degree requirements of the four-year college to which you plan to transfer.

To earn an AA Degree with Designation in Sociology, you must complete at least 60 college-level credits, as described below:

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (35-36 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT C03 course

Mathematics (3-4 Credits)

- One GT Pathways course (GT-MA1), prefer MAT 1260 - Introduction to Statistics: GT-MA1: except:

- Adams State University prefers MAT 1340 - College Algebra: GT-MA1:

Colorado Mesa University

- Colorado Mesa University requires either MAT 1240 - Mathematics for the Liberal Arts: GT-MA1 **or** MAT 1340 - College Algebra: GT-MA1;

University of Colorado Denver

- University of Colorado Denver requires MAT 1340 - College Algebra: GT-MA1 **or** MAT 1320 - Finite Mathematics: GT-MA1 **or** MAT 1260 - Introduction to Statistics: GT-MA1;

Western State Colorado University

- Western State Colorado University requires MAT 1240 - Mathematics for the Liberal Arts: GT-MA1 **or** MAT 1340 - College Algebra: GT-MA1

Natural and Physical Sciences (8 Credits)

- Select two GT Pathways Natural and Physical Sciences courses: GT-SC1 *

Arts and Humanities (9 Credits)

- Any three approved GT Pathways Arts & Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4 *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral Sciences courses (GT-SS1, GT-SS2, GT-SS3 *

History (3 Credits)

- Select one GT Pathways History course: GT-HI1 *

Additional Required Sociology Courses (18 Credits)

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

or

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

SOC 1001 - Introduction to Sociology I: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 101 This course examines the basic concepts, theories, and principles of sociology, including topics of culture, race, class, gender, sexuality, social groups, and deviance through a local and global lens. Analyzes and interprets socio-historic as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. (GT-SS3) GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly SOC 102 Examines the basic concepts, theories, and principles of sociology, including topics of family, religion, education, politics, the economy, health, demography, the environment and social movements through a local and global lens. Analyzes and interprets socio-historical as well as contemporary issues by using critical thinking skills and linking individual experiences to social structures. This is a statewide Guaranteed Transfer course in the GT-SS3 category. This course is one of the statewide Guaranteed Transfer courses, GT-SS3.

- Choose three additional GT Pathways SOC courses (GT-SS3) **Credit(s): 9** *

Electives (6-7 Credits)

Determined by transferring institution

Transfer Degrees

This degree transfers to the following Colorado public four-year institutions of higher education:

- Adams State University (B.A. Sociology; Criminology or Social Welfare emphasis)
- Colorado Mesa University (B.A. Sociology; Sociology concentration)
- Colorado State University-Fort Collins (B.A. Sociology; General Sociology concentration)
- Colorado State University-Pueblo (BA Sociology; B.S. Sociology)
- Fort Lewis College (B.A. Sociology; Human Services-General option)
- Metropolitan State University of Denver (B.A. Sociology)
- University of Colorado, Boulder (B.A. Sociology)
- University of Colorado, Colorado Springs (B.A. Sociology)
- University of Colorado, Denver (B.A. Sociology)
- University of Northern Colorado (B.A. Sociology; all emphasis)
- Western State Colorado University (B.A. Sociology)

Software Development and Security AAS

See list of Department Chairs on the Personnel page.

Program Description

The Computer Information Systems program provides skills to ensure secure programming. You will learn about essential principles of programming, security maintenance, and troubleshooting. If you plan to transfer for a bachelor's degree, refer to the Transfer Degree or speak with an advisor.

Career Options

The CIS Software Development and Security degree provides training to become a computer programmer.

Total Credits: 60

Semester One , Fall (13 credits)

CIS 1015 - Introduction to Computer Information Systems

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 115 Provides an overview of computer information systems and their role in society. This course emphasizes terminology and the identification of computer components and systems used in personal and business environments. This course discusses the evaluation of systems and measures that can be applied to protect them.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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 2020 - Fundamentals of Unix

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 220 Explores the structure and fundamentals of the Unix operating system including the file system and file processing, various utility programs, shell, multi-user operation, text processing, and communications.

CIS 2023 - Linux

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CIS 223 Introduces students to the concepts of installing, configuring, and managing the Linux operating

system. Topics covered include working with various desktops, use of filesystem commands, and management of user and group permissions.

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Semester Two, Spring (15 credits)

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

CNG 1042 - Introduction to Cloud Computing Concepts

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CNG 142 Introduces fundamental content on cloud computing including system analysis, requirements, configuration, deployment, and testing. This course includes information on management, business continuity, security, maintenance, updating, and troubleshooting as related to cloud computing.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

CSC 1019 - Introduction to Programming: (Programming Language)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CSC 119 Focuses on a general introduction to computer programming. This course emphasizes the design and implementation of structured and logically correct programs with good documentation. It is centered on basic programming concepts, including control structures, modularization, and data processing. A structured programming language is used to implement program designs. It emphasizes the writing of multiple programs following the software development process, from start to finish, including design, implementation, and testing.

CWB 2005 - Client-Side Scripting: (Software)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 205 Explores the client-side programming skills necessary to create dynamic web content using a markup embeddable and procedural scripting language executed on the client web browser.

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Semester Three, Fall (16 credits)

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CNG 1032 - Network Security Fundamentals

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Corequisite(s): CNG 1001 or CNG 1024
Formerly CNG 132 Delivers a comprehensive overview of network security, including general security concepts. Communication Security is studied, including remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks are introduced. Cryptography basics are incorporated, and operational/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

CSC 1060 - Computer Science I: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1019 or CSC 1020
Corequisite(s): MAT 1340
Formerly CSC 160 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 2017 - Advanced Python Programming

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): ((CSC 1019 or CSC 1020) and MAT 1340 or higher) or CSC 1060
Formerly CSC 217 Continues program development and problem solving not covered in CSC 1019: Introduction to Programming. Students will create larger programs in the areas of advanced expression, iterator objects, parsing, and GUI applications.

CWB 2006 - Server-Side Scripting: (Software)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 206 Explores the creation of dynamic web pages and applications using server-side scripting with database interactivity, server-based scripting languages, and database manipulation languages.

Semester Four, Spring (16 credits)

CIS 2087 - Cooperative Education

Credit(s): 1-12
Internship Hour(s): 3-36
Formerly CIS 287 To be determined by the individual instructor. A Course Description will be developed for each course and documented within the course syllabus. Refer to the SFCC Style Guide for Course Description, Required Course Learning Outcome, and Topical Outline guidelines.

CSC 1061 - Computer Science II: (Language)

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Prerequisite(s): CSC 1060
Formerly CSC 161 Continues algorithm development and problem solving techniques not covered in Computer Science I using a high-level programming language. Students are able to gain experience in the use of data structures and the design and implementation of larger software projects. Intensive computer laboratory experience is required for this course.

CSC 1029 - Introduction to Secure Coding

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1060
Formerly CSC 129 Focuses on introduction to secure coding. Emphasizes concepts, principles, and best practices of structured secure programs within security standards. Analysis of design of secure programming is stressed, including costs, threats, security concepts, policies, coding flaws, vulnerabilities, exploits, and code mitigation. Analysis of the design of legacy and contemporary object oriented languages is emphasized. Focuses on the application of secure coding principles, standards to resolve code flaws and vulnerabilities.

CSC 2025 - Computer Architecture/Assembly Language Programming

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.5
Prerequisite(s): CSC 1061
Formerly CSC 225 Covers how a computer operates and the relationship between machine code and the primary computer components. The course explores the design of the processor, registers, memory, and various types of storage. Assembly language is used for computer processes commands and how programming languages use memory addresses. Overview of architecture that is in development will be discussed.

CSC 2067 - Object-Oriented Analysis and Design

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 267 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.

Solidworks/3D Modeling

See list of Department Chairs on the Personnel page.

Program Description

This certificate teaches students to design components in the manufacturing process and then create a 3D model. This is a contemporary practice that is essential to lean manufacturing.

Core Requirements (6 credits)

CAD 2455 - Solidworks/Mechanical

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly CAD 255 Introduces parametric feature-based solid modeling 3D concepts to build confidence in 3D thinking

and progresses to three-dimensional parameters. This course provides instruction on how to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

CAD 2456 - Advanced Solidworks

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): CAD 2455
Formerly CAD 259 Introduces advanced applications of the 3D parametric software SolidWorks. Focuses include management of design data, advanced assembly, analysis of model creations, documentation of bill of materials and parts lists, rendering, animation, and dynamic simulation and testing a model assembly.

CAD 2660 - 3D Printing/Additive Manufacturing

Credit(s): 3
Lecture Hour(s): 3
Formerly CAD 262 Provides the student with the ability to blend the virtual and real design worlds together through the use of 3D CAD Modeling, and 3D Printing.

SQL Coding Certificate

See list of Department Chairs on the Personnel page.

The Structured Query Language (SQL) is the programming language that is used with most database applications. Knowledge of SQL gives the student opportunities in both database and programming jobs. Most modern businesses manage their data using a database and databases are found inalmost every industry. This two course certificate introduces the student to the basics of both SQL and database design.

Total Credits: 6

Courses

CIS 2043 - Introduction to Structured Query Language (SQL)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly CIS 243 Introduces Structured Query Language (SQL) including creation of database structures and how to store, retrieve, and manipulate data in a relational database. This course also covers creating tables and views, using indexes, and developing stored procedures and triggers.

CIS 2040 - Database Design and Development

Credit(s): 3
Lecture Hour(s): 3
Formerly CIS 240 Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language (SQL) for databases.

Steering and Suspension/Brakes Mini-Certificate

See list of Department Chairs on the Personnel page.

To enter the automotive collision or automotive service program, you must successfully complete any CCR course or qualifying placement score or exemption.

Entrance into the program involves a screening and selection process. You can obtain an application and information by calling the Automotive Department at 719.549.3354.

Career Opportunities

The Automotive Service Technology program prepares you for a range of careers in automotive maintenance and repair.

Program Description

This program teaches you to perform general maintenance, as well as to diagnose and repair electrical, engine, transmission, suspension, brake and air conditioning systems. The program has met the National Institute for Automotive Technicians Education Foundation (NATEF) accreditation in the areas of Automatic Transmissions & Transaxles, Brakes, Electrical/Electronic Systems, Engine Performance, Engine Repair, Heating & Air Conditioning and Suspension & Steering. We also offer Automotive Services courses for students in the Concurrent Enrollment Program at Pueblo Community College, Cañon City High School, and PCC Southwest Campus in Mancos. We encourage you to take the Automotive Service Excellence (ASE) certification tests while enrolled at PCC. We offer a paid apprenticeship for high school students through the Automotive Youth Education System (AYES).

As a student in the program, you will become a member of the Skills USA club and participate in a number of leadership activities and competitions.

Program Requirements

Entrance Requirements:
Admissions to the Automotive Service Technology program is by application only. For admission requirements, please go to MT-129 and see the department chair.

Total Credits: 13

Certificate Requirements

ASE 1010 - Brakes I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 110 Covers the basics of how various systems on the automobile operate, maintenance requirements, and financial concerns related to operating and maintaining an automobile.

ASE 1011 - Automotive Brake Service II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 111 Covers diagnostics, test procedures, and repair to automotive foundation braking system. This course also introduces the components, types of Antilock Braking Systems (ABS), and traction control systems of current vehicles. This course meets MLR/AST/MAST program accreditation requirements.

ASE 1040 - Suspension and Steering I

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 140 Focuses on diagnosis and service of suspension and steering systems and components. This course meets MLR/AST/MAST requirements.

ASE 1041 - Suspension and Steering II

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 141 Covers design, diagnosis, inspection, service of suspension, and steering systems used on light trucks and automobiles including power steering and Supplemental Restraint System (SRS) service. This course meets AST/MAST requirements.

ASE 2010 - Automotive Power and ABS Brake Systems

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.5
Formerly ASE 210 Covers the operation and theory of the modern automotive braking systems including the operation, diagnosis, service, and repair of the anti-lock braking systems and power assist units. This course also covers the machining operations of today's automobile brake systems. This course meets AST/MAST requirements.

ASE 2040 - Suspension and Steering III

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly ASE 240 Covers operation of steering and power steering systems. It will also include different alignment types and procedures.

ASE 2182 - Internship: General (Summer)

Credit(s): 1
Internship Hour(s): 3
Formerly ASE 282 Emphasizes practical on-the-job, work-related experience that corresponds to the area of study. In this semester, the student takes all related sponsor requirements in (STS) Service Training Standards (General Motors) or ("F.A.S.T.") Fundamental Automotive Systems Training (Chrysler) or others as required by the program track.

Structural Welder Certificate

See list of Department Chairs on the Personnel page.

Program Description

Welders must be highly skilled and knowledgeable in a variety of welding processes to meet the challenges of advanced technology and new materials. Welding is not just a trade; it's a tool for many trades requiring a high level of training and technical knowledge. The Welding Technology program helps students develop skills through classroom studies and hands-on experience under close supervised instruction. Students learn about structural steel fabrication, layout work and pipe welding following detailed blueprints.

Total Credits: 21

Certificate Requirements

Core Requirements (21 Credits)

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1001 - Allied Cutting Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 101 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 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

WEL 1003 - Basic Shielded Metal Arc I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 103 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX10 electrodes.

WEL 1004 - Basic Shielded Metal Arc II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1003.
Formerly WEL 104 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX18 electrodes.

WEL 1006 - Blueprint Reading for Welders and Fitters

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): WEL 1001 or WEL 1002
Formerly WEL 106 Covers interpretation and creation of weld symbols and blueprints used in metal fabrication.

Studio Art, AA (with Designation)

See list of Department Chairs on the Personnel page.

Career Opportunities

The Associate of Arts (AA) Degree with Designation in Art History prepares the student to transfer as a junior to a four-year institution in Colorado in order to pursue a Bachelor of Arts (BA) or Bachelor of Fine Arts (BFA) degree in Art or Studio Art. Students who opt for the Bachelor of Arts in Studio Art can choose to work in several occupational fields, including museums, galleries, commercial art, education, media, photography and academia. Once a BA or BFA is completed, students may pursue a higher or graduate degree in Art, if interested.

Program Description

This program introduces the student to the field of Studio Art and includes the course work to meet general education requirements that are common to all Colorado four-year institutions, as well a specific courses in various subfields of Studio Art. Upon transfer, students from Pueblo Community College who have earned the Associate of Arts (AA) Degree with Designation in Studio Art will be ready to complete the last half of a BA or BFA in Studio Art at a four-year institution.

Program Requirements

Refer to the course requirements listed below. Some courses may have prerequisites of lower level classes or assessment scores. Refer to the course descriptions for these prerequisites.

Total Credits: 60

** Refer to CCCS Guaranteed Transfer (GT) - Pathways Courses for a full list of all GT Pathway Courses*

General Education Core Requirements (31 Credits)

Written Communication (6 Credits)

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

ENG 1022 - English Composition II:GT-CO2

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): ENG 1021 or ENG 1031
Formerly ENG 122 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 argumentative compositions. This is a statewide Guaranteed Transfer course in the GT-CO2 category. GT-CO2

or

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3 and** a GT Pathways Advanced Writing Course (GT-CO3) *

Mathematics (3 Credits)

- Select one GT Pathways Mathematics course (GT- MA1) *, prefer MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

Natural and Physical Sciences (7 Credits)

- Select two GT Pathways Natural and Physical Sciences courses (GT-SC1, GT-SC2) *. At least one of these courses must include a laboratory component (GT-SC1) *

Arts and Humanities (6 Credits)

Note: Courses from the Arts and Expression category (GT-AH1) may not be used to meet this requirement

- Select two GT Pathways Arts and Humanities courses from any category (GT-AH2, GT-AH3, GT-AH4) *

Social and Behavioral Sciences (6 Credits)

- Select two GT Pathways Social and Behavioral courses from any category (GT-SS1, GT-SS2, GT-SS3) *

History (3 Credits)

- Select one GT Pathways History Course (GT-HI1) *

Additional Required Studio Art Courses (21 Credits)

ART 1111 - Art History Ancient to Medieval: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 111 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Ancient through the Medieval periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

Credit(s): 3
Lecture Hour(s): 3
Formerly ART 112 Provides the knowledge base to understand the visual arts, especially as related to Western culture. This course surveys the visual arts from the Renaissance to 1900. This is a statewide Guaranteed Transfer course in the GT-AH1 category. GT-AH1

ART 1201 - Drawing I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 121 Investigates the various approaches and media that students need to develop drawing skills and visual perception.

ART 1002 - Visual Concepts 2-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 131 Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

ART 1003 - 3-D Design

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 132 Introduces the fundamentals of three-dimensional design, form, and space. The course applies the elements and principles of design to three-dimensional problems.

ART 1202 - Drawing II

Credit(s): 3
Art Studio Hour(s): 6
Prerequisite(s): ART 1201
Formerly ART 221 Explores expressive drawing techniques with an emphasis on formal composition, black and white, and color media and content or thematic development.

or

ART 1203 - Figure Drawing I

Credit(s): 3
Art Studio Hour(s): 6
Formerly ART 128 Introduces the basic techniques of drawing the human figure.

- Select one additional 3-credit Studio Art course **Credit(s): 3**

Electives (8 Credits)

Determined by transferring institution;

Note: Students planning to transfer to Colorado State University-Fort Collins will be required to complete two semesters of one foreign language for their electives, or be able to pass the CSU-FC foreign language placement exam for completion of the BA in Studio Art.

Transfer Degrees

This degree transfers to the following Colorado Public Four-Year institutions of higher education:

- Adams State University (B.A. Liberal Arts, Studio Art emphasis)
- Colorado Mesa University (B.F.A. Art, Studio Art concentration)
- Colorado State University-Ft. Collins (B.A. Art, Studio concentration)
- Colorado State University-Pueblo (B.A. Art)
- Fort Lewis College (B.A. Art, Art option)
- Metropolitan State University of Denver (B.A. Art)
- University of Colorado, Boulder (B.A. Studio Arts)
- University of Colorado, Colorado Springs (B.A. Visual and Performing Arts, Visual Art option)
- University of Colorado, Denver (B.A. Fine Arts, Studio Art emphasis)
- University of Northern Colorado (B.A. Art and Design, Art emphasis)
- Western State Colorado University (B.A. Art, Studio Art emphasis)

Surgical Technology, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Surgical Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting (ARC/STSA).

The Surgical Technology program teaches students classroom and hands-on learning in surgical techniques, patient prep, and Operating Room (O.R.) prep. Students will learn how to create and maintain a sterile field. They will also learn how to scrub, gown, glove, drape, and use case management. Students will be taught hemostasis, how to use sutures, needles, stapling devices, and how to handle specimens. In addition, students will learn pharmacology and anesthesia, wound care, and use the principles of infection control. How to handle sharps, pass instruments and supplies during procedures will also be taught. Training will include how to perform surgical counts, room turnover and terminal cleaning processes. You will also learn to properly process and sterilize instruments. Finally, students will engage in extensive clinical work to gain experience working with surgeons and staff in a real O.R.

The Surgical Technology (STE) program has a selective admissions process. The program application and requirements are available in the Nursing Division office or at Pueblo Community College STE from January 1 to May 25. All Nursing Division programs have essential functions to help you be successful in the program and career.

Note: You must undergo a background check and drug screen before we can officially admit you into the program. A felony, loss of license, administrative disciplinary proceeding for negligence, malpractice, recklessness, or willful or intentional misconduct may prohibit entrance into the program and/or eligibility to sit for certification exams.

Career Information

At the completion of the program, students are eligible to sit for the National Certification Exam governed by the National Board of Surgical Technology and Surgical Assisting (NBSTSA). Upon passing, a surgical technologist can practice under the credentials of Certified Surgical Technologist (CST). A state license through The Colorado Department of Regulatory Agencies (DORA) is required to practice as a surgical technologist in the State of Colorado (requirements vary from state to state).

Total Program Credits – 64.5

Apply to program by May 15

NOTE:

Any students who have successfully completed both BIO 2101 Anatomy and Physiology I and BIO 2102 Anatomy and Physiology II will **not** need to take BIO 1006 Basic Anatomy and Physiology. Students in the program need to have full body anatomy and physiology knowledge.

Any students who have successfully completed BIO2104 Microbiology will not need to take BIO1016 Introduction to Human Disease.

Total Credits: 64.5

Pre-requisites (7 credits)

Applicants must have BIO 1006 Basic Anatomy & Physiology and one (1) ENG 1021 or COM 1250 pre-requisite course completed prior to application. All additional general education requirements must be taken as indicated in the Surgical Technology Program Schedule below.

BIO 1006 - Basic Anatomy and Physiology

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Prerequisite(s): Recommendation: College Readiness in English and Quantitative Literacy Math
Formerly BIO 106 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.

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

1 Any three (3) credit hour COM course may be substituted upon department chair approval.

2 ENG or COM course not completed as a pre-requisite must be completed during second fall semester.

Note: Students who have successfully completed both BIO 2101 and BIO 2102 do not need to take BIO 1006. A full body anatomy and physiology knowledge is required.

First Fall (14.5 credits)

STE 1002 - Introduction to Surgical Technology

Credit(s): 6
Lecture Hour(s): 6
Prerequisite(s): Program Admittance
Formerly STE 102 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, surgical pharmacology and anesthesia, wound healing, sutures, needles, stapling devices and surgical instrumentation, equipment, and supplies. Perioperative technical skills of the surgical technologist will be demonstrated.

STE 1003 - Introduction to Surgical Technology Lab

Credit(s): 4
Vocational Lab Hour(s): 10
Prerequisite(s): Program Admittance
Formerly STE 103 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 1033 - Surgical Instruments Lab I

Credit(s): 1.5
Vocational Lab Hour(s): 3.75
Prerequisite(s): Program admittance.
Formerly STE 133 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. Introduces supplies, equipment, and the names, category, and use of instrumentation used for general, obstetric, gynecologic, otorhinolaryngologic, oral, maxillofacial, plastic, and ophthalmic surgical specialties.

BIO 1016 - Introduction to Human Disease: GT-SC2

Credit(s): 3
Lecture Hour(s): 3
Formerly BIO 116 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 is a statewide Guaranteed Transfer course in the GT-SC2 category. GT-SC2

Note: Students who have successfully completed BIO 2104 do not need to take BIO 1016.

First Spring (14 credits)

STE 1011 - Surgical Procedures and Case Management

Credit(s): 6
Lecture Hour(s): 6
Prerequisite(s): STE 1002
Formerly STE 111 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 neuro surgery. 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 1051 - Surgical Procedures & Case Management Lab

Credit(s): 4.5
Vocational Lab Hour(s): 11.25
Prerequisite(s): STE 1002, STE 1003, STE 1033
Formerly STE 151 Introduces surgical case management and the skills required for the surgical technologist to perform in the first and second scrub role in a simulated surgical environment, as it relates to general, obstetric, gynecologic, ophthalmic, otorhinolaryngologic, oral, maxillofacial, plastic, genitourinary, orthopedic, cardiothoracic, peripheral vascular, and neurologic surgical specialties.

STE 1034 - Surgical Instruments Lab II

Credit(s): 1.5
Vocational Lab Hour(s): 3.75
Prerequisite(s): STE 1002, STE 1003
Formerly STE 134 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. Introduces supplies, equipment, and the names, category, and use of instrumentation used for genitourinary, orthopedic, cardiothoracic, peripheral vascular, and neurologic surgical specialties.

STE 1005 - Pharmacology of Surgical Technology

Credit(s): 2
Vocational Lab Hour(s): 4
Formerly STE 105 This course discusses relevant knowledge as it pertains to surgical pharmacology theory, drugs, and aspects of anesthesia.

Summer (6 credits)

STE 2081 - Surgical Technology Clinical Internship I

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): STE 1011, STE 1051, STE 1034, STE 1005
Formerly 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 first of three surgical technology clinical internships.

Second Fall (12 credits)

STE 2082 - Surgical Technology Clinical Internship II

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): STE 2081.
Formerly 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 second of three surgical technology clinical internships.

STE 2069 - CST Exam Review Course

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): STE 2081.
Formerly STE 279, then STE 2079 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.

COM 2063 - Conflict Resolution

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 263 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 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

Second Spring (11 credits)

STE 2083 - Surgical Technology Clinical Internship III

Credit(s): 6
Internship Hour(s): 18
Prerequisite(s): STE 2082.
Formerly STE 283 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 2089 - Surgical Technology Capstone

Credit(s): 2
Lecture Hour(s): 2
Prerequisite(s): STE 2082, STE 2069
Formerly STE 289 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.

COM 2069 - Leadership

Credit(s): 1
Lecture Hour(s): 1
Formerly COM 269 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.

HPR 1039 - Medical Terminology

Credit(s): 2
Lecture Hour(s): 2
Formerly HPR 139 Discusses the structure of medical terms with emphasis on using and combining prefixes, roots and suffixes. This class includes terms related to major body systems, oncology, and psychiatry, as well as clinical laboratory and diagnostic procedures and imaging, and provides accepted pronunciation and spelling of terms used in the healthcare setting.

UAS: Drone Technology 1

See list of Department Chairs on the Personnel page.

Program Description

The utilization of drone technologies and applications are increasing dramatically across the nation. Drones have become an essential tool for operational efficiency at small and large-scale businesses. Formal training and certifications that validate piloting skills have become highly valued in many industries. These include agriculture, real estate, emergency medical services, construction, surveying, law enforcement, and more.

Total credits: 16

Certificate requirements

UAS 1040 - Unmanned Aircraft Systems Flight and Control

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly UAS 140 Introduces principles of flight and control as applied to Unmanned Aeronautical Vehicles (UAVs)/Unmanned Aeronautical Systems (UAS). This course includes principles of flight, mission planning, systems control, and safety of personnel, safety in the operational environment, and compliance with regulations and procedures. Human factors analysis focusing on crew resource management is also introduced.

UAS 1050 - Unmanned Aircraft Systems and Safety: UAS Foundations

Credit(s): 3
Lecture Hour(s): 3
Formerly UAS 150 Provides an understanding of the capabilities and limitations of Unmanned Aircraft Systems (UAS) technologies to including the hardware and software configurations and gain a holistic view of concerns facing UAS integration into the National Airspace System.

UAS 1051 - Unmanned Aircraft Systems and Safety: UAS Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Formerly UAS 151 Provides an understanding of how Unmanned Aircraft Systems (UAS) are used to accomplish a variety of tasks in complex environments and how remote pilots apply UAS technology for commercial, scientific, and

governmental purposes while respecting both physical and regulatory limitations. The course provides a foundation of professionalism and ethics applicable to remote pilots.

UAS 1052 - Unmanned Aircraft Systems and Safety: UAS Personnel

Credit(s): 3
Lecture Hour(s): 3
Formerly UAS 152 Provides an understanding of limits and skills employed by remote pilots in identifying and mitigating errors. Human error and skills used to detect and stop errors during the day-to-day execution of remote pilot tasks are addressed. This course surveys the concepts of decision-making bias, stress, and methods for safely identifying and mitigating risk while making decisions.

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

Credit(s): 4
Lecture Hour(s): 3
Academic Lab Hour(s): 2
Formerly GEO 112 Introduces the principles of meteorology, climatology, ecology, and regional climate classification. The course investigates the geographic factors which influence climate and ecosystems such as topography, elevation, winds, ocean currents, and latitude. This is a statewide Guaranteed Transfer course in the GT-SC1 category. GT-SC1

UAS: Drone Technology 2

See list of Department Chairs on the Personnel page.

Program Description

The utilization of drone technologies and applications are increasing dramatically across the nation. Drones have become an essential tool for operational efficiency at small and large-scale businesses. Formal training and certifications that validate piloting skills have become highly valued in many industries. These include agriculture, real estate, emergency medical services, construction, surveying, law enforcement, and more.

Total credits: 16

Certificate requirements

UAS 1053 - Unmanned Aircraft Systems and Safety: Safety Management

Credit(s): 3
Lecture Hour(s): 3
Introduces Unmanned Aircraft Systems (UAS) pilots to a management system and culture that is fundamental to the aviation industry. The four pillars of safety management will be presented: safety policy, risk management, safety assurance, and safety promotion. This course will address the process of incorporating these principles into UAS operations.

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

AVT 1055 - Unmanned Aircraft Systems Flight Training

Credit(s): 3
Lecture Hour(s): 1
Vocational Lab Hour(s): 3
Formerly AVT 155 Introduces and develops flight control and piloting techniques for common UAS platforms. Students will learn and demonstrate maneuvers, procedures, and best practices for safe UAS operation on fixed wing and rotary wing unmanned aircraft systems (drones).

AVT 2085 - Independent Study

Credit(s): 4
Independent Study Hour(s): 8
Formerlu AVT 285 Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

Elective:
Advanced course with an AVT or UAS prefix, approved by the advisor. **Credit(s): 3**

Web Design and Development, AAS

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 60

Degree Requirements

General Education Requirements (15 Credits)

Communications

ENG 1021 - English Composition I: GT-CO1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College Readiness in English
Formerly ENG 121 Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

COM 1150 - Public Speaking

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 115 Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

OR

COM 1250 - Interpersonal Communication: GT-SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly COM 125 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. This is a statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Mathematics

MAT 1260 - Introduction to Statistics: GT-MA1

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): MAT 0250 or MAT 0300 or apppropriate placement scores
Formerly MAT 135 Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

OR

MAT 1340 - College Algebra: GT-MA1

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0300 or appppropriate placement scores
Formerly MAT 121 Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category. GT-MA1

Gen Ed Elective

CIS 1018 - Intro to PC Applications

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CIS 118 This course 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.

Social Behavioral Sciences

JOU 1005 - Introduction to Mass Media: GT SS3

Credit(s): 3
Lecture Hour(s): 3
Formerly JOU 105 Places the mass media in a technological, historical, and cultural perspective, considering the validity, integrity, and influence of the evolving media in a democracy. This course is a Statewide Guaranteed Transfer course in the GT-SS3 category. GT-SS3

Digital Media Requirements

MGD 2080 - Internship

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 280 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 1015 - Typography & Layout

Credit(s): 3
Vocational Lab Hour(s): 4.50
Corequisite(s): MGD 1001 or MGD 1002 or MGD 1012 or MGD 1013
Formerly MGD 105 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 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications, conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

CNG 1024 - Networking I: Network +

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.50
Formerly CNG 124 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.

CWB 2009 - Web Content Management Systems

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 209 Explores the use of open source Content Management Systems (CMS) to simplify the creation and maintenance of web sites.

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style

sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

MGD 2041 - Web Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 241 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 Web sites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

MGD 2068 - Business for Creatives

Credit(s): 3
Lecture Hour(s): 3
Formerly MGD 268 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 2089 - Capstone

Credit(s): 3
Internship Hour(s): 9
Prerequisite(s): Department Approval Required
Formerly MGD 289 A demonstrated culmination of learning within a given program of study.

MGD 2042 - Web Architecture: Open Source Design

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 242 Provides an overview of current open source tools used in the design industry for designing and implementing Web architecture. Course content changes with trends in the industry. Design focus is on information hierarchy in how it pertains to User Interface (UI) and User Experience (UX) and Search Engine Optimization (SEO). Topics include current content management systems (CMS) such as WordPress and/or Drupal, identifying web scripting languages, and an overview of open source programming and database integration.

CWB 2006 - Server-Side Scripting: (Software)

Credit(s): 3
Lecture Hour(s): 2
Vocational Lab Hour(s): 1.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 206 Explores the creation of dynamic web pages and applications using server-side scripting with database interactivity, server-based scripting languages, and database manipulation languages.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

CWB 2008 - Web Application Development: (Development Tool(s))

Credit(s): 3
Vocational Lab Hour(s): 4.5
Prerequisite(s): CWB 1010 and CSC 1019
Formerly CWB 208 Uses hands-on server-side scripting language and environment to teach the basics of application design including development of dynamic database driven web pages and application of key standards such as source and revision control, coding standards, code optimization, data integrity, and general principles that apply to most development environments.

CSC 1020 - Problem Solving with Java

Credit(s): 3
Lecture Hour(s): 3
Formerly CSC 120 Provides an introductory level course in computer programming using a high level programming language. The course will cover design and development of simple software applications. Topics covered will include design of software from initial phase through coding phase, input and output of data, functions or methods, control structures, arrays and error handling.

MGD 2027 - Marcomm Practices

Credit(s): 3
Lecture Hour(s): 3
Formerly MGD 227 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.

Web Design Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

Careers in Media Communications are in demand and PCC offers an affordable way for students to begin their education. Some of the exciting career options within this field include: Graphic Designers; Web Developers; Broadcast Technicians; Film Video Editors; and Advertising & Promotion Managers.

Program Description

The Media Communications program teaches students to think critically and develop skills in Web Design, Graphic Design, Advertising, Videography, News Writing, and TV-Radio Production. Courses provide a solid foundation in

these areas through a combination of lecture and hands on applications. There are multiple labs with state of the art equipment and software for your area of emphasis. The Media Communications program provides a high technical skill attainment in this changing field of communication. Students have multiple options to pursue. The AAS degrees with emphases in Graphic Design and Web Design offer advanced technical skills in these areas. Certificates provide basic skill sets to enhance an existing degree or occupation. The AGS degree provides a transfer option to a four year university. If interested in this option, please refer to the Transferring Credits section of the catalog.

Total Credits: 18

Certificate Requirements

MGD 1002 - Introduction to Multimedia

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 102 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 1011 - Adobe Photoshop I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 111 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 1041 - Web Design I

Credit(s): 3
Vocational Lab Hour(s): 4.50
Formerly MGD 141 Introduces web site planning, design and creation utilizing HTML through industry-standard development tools [may list specific software]. Emphasis is placed on applying stylistic decisions using cascading style sheets. Web-based considerations regarding color, typography, aesthetics, user interface design, and process integration with visual-based design tools will be explored.

MGD 1043 - Motion Graphic Design I: (Software)

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 143 Explores the creation of animation and dynamic media for web and multimedia applications, conforming to professional standards. Emphasizes the manipulation of time-based media using key-frames, tweens and other technologies related to the specific software being utilized. Also examines the use of scripts to trigger timeline events and create basic interactive behavior.

MGD 1064 - Digital Video Editing I

Credit(s): 3
Vocational Lab Hour(s): 4.5
Formerly MGD 164 Introduces to digital non-linear video editing. Students will capture, compress, edit, and manipulate video images using a personal computer. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

MGD 2041 - Web Design II

Credit(s): 3
Vocational Lab Hour(s): 4.50
Prerequisite(s): MGD 1041
Formerly MGD 241 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 Web sites that employ more complex structures, optimal site architecture and navigation necessary for larger and more complex sites.

Welding Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Welding program prepares you for a career in construction and manufacturing settings, small job shops, city and government welding centers and related sites. You may also work as a self-employed welder.

Program Description

The Welding AAS degree offers advanced instruction if you have finished the basic welding courses or if you are working at the trade and wish to upgrade your skills. We also give qualification tests if you wish to be become qualified in a welding process.

The Welding Certificate program provides training in the SMAW (Shielded Metal Arc Welding), GTAW (Gas Tungsten Arc Welding), GMAW (Gas Metal Arc Welding) and the Oxyacetylene cutting process. This training is also included in the degree program. This two-semester program stresses print reading and applied metal properties. It prepares you for employment in the industry in the shortest possible time.

Total Credits: 34

Certificate Requirements

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include

measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1001 - Allied Cutting Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 101 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 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

WEL 1003 - Basic Shielded Metal Arc I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 103 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX10 electrodes.

WEL 1006 - Blueprint Reading for Welders and Fitters

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): WEL 1001 or WEL 1002
Formerly WEL 106 Covers interpretation and creation of weld symbols and blueprints used in metal fabrication.

WEL 2063 - Applied Metal Properties

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly WEL 263 Introduces the study of metal properties, hardness testing, heat treatment, cold working microscopic examination and application of common commercial alloys in industry.

WEL 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

WEL 1004 - Basic Shielded Metal Arc II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1003.
Formerly WEL 104 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX18 electrodes.

WEL 1050 - AWS Qualification Testing

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 150 Provides students with the opportunity to complete a welding qualification test in accordance with an American Welding Society code or specification.

Welding Multi-Process Certificate

See list of Department Chairs on the Personnel page.

This Welding certificate offers training in Shielded Metal Arc and Gas Tungsten Arc Welding. Become familiar with cutting processes used in the field. Students can taking qualification exams at the end of the semester in various welding processes. This certificate is a fast track option. It can be completed in one semester. It is offered in the fall and spring semesters (and sometimes the summer semester), on the Pueblo campus only.

Total Credits: 18

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1041 - Introduction to Multi Process Welding

Credit(s): 4
Lecture Hour(s): 1

Vocational Lab Hour(s): 4.50
Formerly WEL 141 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 A.W.S. filler metal classification and selection. Basic math, measuring, computer skills and Blueprint reading will be introduced

WEL 1042 - Basic Multi Process Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1041.
Formerly WEL 142 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 1043 - Intermediate Multi Process Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1042.
Formerly WEL 143 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 1044 - Advanced Multi Process Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1043.
Formerly WEL 144 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 1050 - AWS Qualification Testing

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 150 Provides students with the opportunity to complete a welding qualification test in accordance with an American Welding Society code or specification.

Welding Technology, AAS

See list of Department Chairs on the Personnel page.

Program Description

The Welding AAS degree offers advanced training. Learn how to do Shielded Metal Arc and Gas Tungsten Arc Welding. Become familiar with cutting processes used in the field. You will learn about the properties of metals and how to read prints. Students can take qualification exams at the end of the semester in various welding processes.

Total Credits: 64

Semester One, Fall (16 credits)

ENG 1031 - Technical Writing I

Credit(s): 3
Lecture Hour(s): 3
Prerequisite(s): College English Readiness as determined through multiple measures
Formerly ENG 131, formerly ENG 1020 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. This is a statewide Guaranteed Transfer course in the GT-CO1 category. GT-CO1

MAT 1150 - Technical Mathematics

Credit(s): 4
Lecture Hour(s): 4
Prerequisite(s): MAT 0250 or MAT 0300 or appppropriate placement scores
Formerly MAT 108 Covers mathematical material designed for career and technical students. Topics include measurement, algebra, geometry, trigonometry, and vectors. These are presented at an introductory level and the emphasis is on applications.

WEL 1000 - Safety for Welders

Credit(s): 1
Lecture Hour(s): 1
Formerly WEL 100 Covers the hazards of welding on health and safety.

WEL 1001 - Allied Cutting Processes

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Formerly WEL 101 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 1002 - Oxy-fuel Joining Processes

Credit(s): 4
Lecture Hour(s): 1

Vocational Lab Hour(s): 4.5
Formerly WEL 102 Covers Oxy-fuel joining operations.

WEL 1024 - Gas Tungsten Arc Welding I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Formerly WEL 124 Covers Gas Tungsten Arc Welding (GTAW) operations in various positions and joint designs.

Semester Two, Spring (18 credits)

- Any general education course combination, including Arts/Humanities, Social/Behavioral Science, Communications, or Physical Life Science **Credit(s): 6**

WEL 1003 - Basic Shielded Metal Arc I

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 103 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX10 electrodes.

WEL 1025 - Introduction to Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024.
Formerly WEL 125 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 2050 - Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002.
Formerly WEL 250 Develops welding and associated skills in metal fabrication.

Semester Three, Fall (16 credits)

WEL 1004 - Basic Shielded Metal Arc II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1003.
Formerly WEL 104 Covers Shielded Metal Arc Welding (SMAW) operation utilizing E-XX18 electrodes.

WEL 1006 - Blueprint Reading for Welders and Fitters

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Prerequisite(s): WEL 1001 or WEL 1002
Formerly WEL 106 Covers interpretation and creation of weld symbols and blueprints used in metal fabrication.

WEL 2024 - Gas Tungsten Arc Welding II

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.5
Prerequisite(s): WEL 1024, WEL 1025.
Formerly WEL 224 Covers Gas Tungsten Arc Welding (GTAW) operations utilizing a variety of base metals and advanced joint designs.

WEL 2051 - Design, Layout and Fabrication

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1002, WEL 1024, WEL 2050.
Formerly WEL 251 Develops advanced welding and associated skills in the use of drawings and blueprints in planning. Includes designing and layout projects.

Semester Four, Spring (14 credits)

- Any general education course **Credit(s): 2 minimum**

WEL 2025 - Advanced Gas Metal Arc Welding

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1024, WEL 1025.
Formerly WEL 225 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 2033 - 2G-Horizontal Pipe A.P.I.

Credit(s): 4
Lecture Hour(s): 1
Vocational Lab Hour(s): 4.50
Prerequisite(s): WEL 1004 or equivalent.
Formerly 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 Petroleum Institute Pipe Code using the SMAW process with E-XX10 type electrodes.

WEL 2063 - Applied Metal Properties

Credit(s): 4
Lecture Hour(s): 3
Vocational Lab Hour(s): 1.50
Formerly WEL 263 Introduces the study of metal properties, hardness testing, heat treatment, cold working microscopic examination and application of common commercial alloys in industry.

WEL 1005 - Introduction to Nondestructive Testing Methods & Visual Inspection Workshop

Credit(s): 4
Lecture Hour(s): 2
Vocational Lab Hour(s): 3
Introduces the six major Non-Destructive Testing (NDT) disciplines, including,: Ultrasonic (UT), Magnetic Particle (MT), Eddy Current (ECT), Liquid Penetrant (PT), Radiography (RT), and Visual (VT). This course focuses on the visual identification of welding discontinuities, and emphasizes distinguishing visual discontinuities from defects based on specific welding codes using a variety of materials, visual inspection techniques, and equipment.

Wildland Firefighter Mini-Certificate

See list of Department Chairs on the Personnel page.

Career Opportunities

The Wildland Firefighter Certificate will prepare students for a career with local and state fire departments and federal land management agencies (US Forest Service, etc.). Additionally, this certificate is designed for individuals with a general interest in wildland fire suppression; volunteer firefighters who would like to expand their knowledge and career opportunities; and currently enrolled students with an interest in supplementing their degrees.

Program Description

The Wildland Firefighter Program will provide students with a solid foundation in theory and application of wildland fire suppression concepts. This certificate will also provide training that exceeds the minimum requirements for prospective wildland firefighters as established by the National Fire Protection Association and the National Wildfire Coordinating Group.

Program Requirements

Entrance Requirements:

Successful completion of any CCR course or qualifying placement score or exemption.

Graduation Requirements:

Successful completion of all course work with a grade of "C" or better.

Total Credits: 12.75

Certificate Requirements

FSW 1000 - S-190 Introduction to Wildland Fire Behavior

Credit(s): 1
Lecture Hour(s): 1
Formerly FSW 100 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 FSW 1001 - S-130 Firefighting Training.

FSW 1001 - S-130 Firefighting Training

Credit(s): 2
Lecture Hour(s): 0.50
Vocational Lab Hour(s): 2.25
Formerly FSW 101 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 1002 - S-131 Firefighter Type I

Credit(s): 0.50
Lecture Hour(s): 0.50
Formerly FSW 102 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 1003 - D-110 Dispatch Recorder with Introduction to Ross

Credit(s): 1
Lecture Hour(s): 1
Formerly FSW 103 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 1004 - I-100 Introduction to ICS

Credit(s): 0.25
Lecture Hour(s): 0.25
Formerly FSW 104 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 140 - S-200 Initial Attack Incident Commander **Credit(s): 1**
- FSW 141 - S-203 Introduction to Incident **Credit(s): 2**
- FSW 142 - S-211 Portable Pumps and Water Use **Credit(s): 1.5**

FSW 1043 - S-212 Wildfire Chain Saws

Credit(s): 2
Lecture Hour(s): 1
Vocational Lab Hour(s): 1.50
Formerly FSW 143 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 155 - I-200, IS-200, Q-436 Basic ICS: ICS for Single Resources and Initial Action Incidents **Credit(s): 1.5**

CCCS Guaranteed Transfer (GT) - Pathways Courses

Division of Arts & Sciences

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. The table below lists GT Pathways Courses that are included in this policy. Although Pueblo Community College does not offer all of the courses listed in the table below, if you are transferring any of these courses to PCC from an accredited post-secondary institution, these courses will be accepted at PCC.

CCCS Guaranteed Transfer (GT) - Pathways Courses

Introductory Writing Courses (GT-CO1)

- ENG 1021 - English Composition I: GT-CO1 **Credit(s): 3**
- ENG 1031 - Technical Writing I **Credit(s): 3**

Intermediate Writing Courses (GT-CO2)

- ENG 1022 - English Composition II:GT-CO2 **Credit(s): 3**

Advanced Writing Courses (GT- CO3)

- ENG 2001 - Composition III: Writing for Public Discourse GT-CO3 **Credit(s): 3**

Mathematics (GT-MA1)

- MAT 1240 - Mathematics for the Liberal Arts: GT-MA1 **Credit(s): 4**
- MAT 1340 - College Algebra: GT-MA1 **Credit(s): 4**
- MAT 1420 - College Trigonometry: GT-MA1 **Credit(s): 3**
- MAT 1320 - Finite Mathematics: GT-MA1 **Credit(s): 4**
- MAT 1400 - Survey of Calculus: GT-MA1 **Credit(s): 4**
- MAT 1260 - Introduction to Statistics: GT-MA1 **Credit(s): 3**
- MAT 2410 - Calculus I: GT-MA1 **Credit(s): 5**
- MAT 2420 - Calculus II: GT-MA1 **Credit(s): 5**
- MAT 2430 - Calculus III: GT-MA1 **Credit(s): 4**
- MAT 2431 - Calculus III with Engineering Applications: GT-MA1 **Credit(s): 5**
- MAT 2520 - Discrete Mathematics: GT-MA1 **Credit(s): 4**
- MAT 2561 - Differential Equations with Engineering Applications: GT-MA1 **Credit(s): 4**
- MAT 2560 - Differential Equations: GT-MA1 **Credit(s): 3**

Arts and Expression (GT-AH1)

- ART 1110 - Art Appreciation: GT-AH1 **Credit(s): 3**
- ART 1111 - Art History Ancient to Medieval: GT-AH1 **Credit(s): 3**
- ART 1112 - Art History Renaissance to Modern: GT-AH1 **Credit(s): 3**
- ART 1113 - Art History **Credit(s): 3**
- DAN 1050 - Dance History: AH1 **Credit(s): 3**
- DAN 1025 - Dance Appreciation: AH1 **Credit(s): 3**
- ENG 2021 - Creative Writing I **Credit(s): 3**
- MUS 1020 - Music Appreciation: GT-AH1 **Credit(s): 3**
- MUS 1021 - Music History Medieval Thru Classical Period: GT-AH1 **Credit(s): 3**
- MUS 1022 - Music History Early Romantic Period to the Present: GT-AH1 **Credit(s): 3**
- MUS 1025 - History of Jazz: GT-AH1 **Credit(s): 3**
- THE 1005 - Theatre Appreciation: GT-AH1 **Credit(s): 3**
- THE 2011 - Development of Theatre Greek-Renaissance: GT-AH1 **Credit(s): 3**
- THE 2012 - Development of Theatre Restoration to Modern: GT-AH1 **Credit(s): 3**
- THE 2015 - Playwriting: GT-AH1 **Credit(s): 3**

Literature and Humanities (GT-AH2)

- HUM 1003 - Introduction to Film Art: GT-AH2 **Credit(s): 3**
- HUM 1015 - World Mythology: GT-AH2 **Credit(s): 3**
- HUM 1021 - Humanities: Early Civilization: GT-AH2 **Credit(s): 3**
- HUM 1022 - Humanities: Medieval - Modern: GT-AH2 **Credit(s): 3**
- HUM 1023 - Humanities: Modern World: GT-AH2 **Credit(s): 3**
- LIT 1015 - Introduction to Literature I: GT-AH2 **Credit(s): 3**
- LIT 2001 - World Literature to 1600: GT-AH2 **Credit(s): 3**
- LIT 2002 - World Literature After 1600: GT-AH2 **Credit(s): 3**

- LIT 2005 - Race. Ethnicity, and Culture in U.S. Literature: GT-AH2 **Credit(s): 3**
- LIT 2011 - American Literature to Civil War: GT-AH2 **Credit(s): 3**
- LIT 2012 - American Literature After Civil War: GT-AH2 **Credit(s): 3**
- LIT 2025 - Introduction to Shakespeare: GT-AH2 **Credit(s): 3**
- LIT 2046 - Literature of Women: GT-AH2 **Credit(s): 3**
- LIT 2059 - Survey of African American Literature: GT-AH2 **Credit(s): 3**
- LIT 2068 - Celtic Literature: GT-AH2 **Credit(s): 3**

Ways of Thinking (GT-AH3)

- PHI 1011 - Introduction to Philosophy: GT-AH3 **Credit(s): 3**
- PHI 1012 - Ethics: GT-AH3 **Credit(s): 3**
- PHI 1013 - Logic: GT-AH3 **Credit(s): 3**
- PHI 1014 - Comparative Religions: GT-AH3 **Credit(s): 3**
- PHI 1015 - World Religions-West: GT-AH3 **Credit(s): 3**
- PHI 2014 - Philosophy of Religion: GT-AH3 **Credit(s): 3**
- PHI 2018 - Environmental Ethics: GT-AH3 **Credit(s): 3**
- PHI 2020 - Philosophy of Death and Dying: GT-AH3 **Credit(s): 3**

World Languages (GT-AH4)

- FRE 2011 - French Language III: GT-AH4 **Credit(s): 3**
- FRE 2012 - French Language IV: GT-AH4 **Credit(s): 3**
- GER 2011 - German Language III: GT-AH4 **Credit(s): 3**
- GER 2012 - German Language IV: GT-AH4 **Credit(s): 3**
- SPA 2011 - Spanish Language III: GT-AH4 **Credit(s): 3**
- SPA 2012 - Spanish Language IV: GT-AH4 **Credit(s): 3**

History (GT-HI1)

- HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1 **Credit(s): 3**
- HIS 1320 - Western Civ: 1650-present: GT-HI1 **Credit(s): 3**
- HIS 1110 - The World: Antiquity-1500: GT-HI1 **Credit(s): 3**
- HIS 1120 - The World: 1500-present: GT-HI1 **Credit(s): 3**
- HIS 1210 - United States History to Reconstruction: GT-HI1 **Credit(s): 3**
- HIS 1220 - United States History Since the Civil War: GT-HI1 **Credit(s): 3**
- HIS 2135 - Colorado History: GT-HI1 **Credit(s): 3**
- HIS 2015 - 20th Century World History: GT-HI1 **Credit(s): 3**

Economic or Political Systems (GT-SS1)

- AEC 1231 - Residential Construction Drawing **Credit(s): 4**
- ECO 2001 - Principles of Macroeconomics: GT-SS1 **Credit(s): 3**

- ECO 2002 - Principles of Microeconomics: GT-SS1 **Credit(s): 3**
- ECO 2045 - Environmental Economics: GT-SS1 **Credit(s): 3**
- PSC 2020 - Introduction to Political Science: GT-SS1 **Credit(s): 3**
- PSC 1011 - American Government: GT-SS1 **Credit(s): 3**
- PSC 1025 - American State and Local Government: GT-SS1 **Credit(s): 3**

Geography (GT-SS2)

- GEO 1005 - World Regional Geography: GT-SS2 **Credit(s): 3**
- GEO 1006 - Human Geography: GT-SS2 **Credit(s): 3**

Human Behavior, Culture, or Social Frameworks (GT-SS3)

- ANT 1001 - Cultural Anthropology: GT-SS3 **Credit(s): 3**
- ANT 1003 - Introduction to Archaeology: GT-SS3 **Credit(s): 3**
- ANT 2115 - Native Peoples of North America: GT-SS3 **Credit(s): 3**
- PSY 1001 - General Psychology I: GT-SS3 **Credit(s): 3**
- PSY 1002 - General Psychology II: GT-SS3 **Credit(s): 3**
- PSY 2105 - Psychology of Gender: GT-SS3 **Credit(s): 3**
- PSY 2107 - Human Sexuality: GT-SS3 **Credit(s): 3**
- PSY 2221 - Social Psychology: GT-SS3 **Credit(s): 3**
- PSY 2222 - Psychology of Death and Dying: GT-SS3 **Credit(s): 3**
- PSY 2331 - Positive Psychology: GT-SS3 **Credit(s): 3**
- PSY 2440 - Human Growth and Development: GT-SS3 **Credit(s): 3**
- PSY 2441 - Child Development: GT-SS3 **Credit(s): 3**
- PSY 2333 - Health Psychology: GT-SS3 **Credit(s): 3**
- PSY 2552 - Abnormal Psychology: GT-SS3 **Credit(s): 3**
- PSY 2771 - Psychology of Personality: GT-SS3 **Credit(s): 3**
- SOC 1001 - Introduction to Sociology I: GT-SS3 **Credit(s): 3**
- SOC 1002 - Introduction to Sociology II: GT-SS3 **Credit(s): 3**
- SOC 2005 - Sociology of Family Dynamics: GT-SS3 **Credit(s): 3**
- SOC 2007 - Environmental Sociology: GT-SS3 **Credit(s): 3**
- SOC 2015 - Contemporary Social Problems: GT-SS3 **Credit(s): 3**
- SOC 2016 - Sociology of Gender: GT-SS3 **Credit(s): 3**
- SOC 2018 - Sociology of Diversity: GT-SS3 **Credit(s): 3**
- SOC 2031 - The Sociology of Deviant Behavior: GT-SS3 **Credit(s): 3**
- SOC 2037 - Sociology of Death and Dying: GT-SS3 **Credit(s): 3**
- WST 2000 - Introduction to Women's Studies: GT-SS3 **Credit(s): 3**

Natural & Physical Sciences: (GT-SC1)

Courses WITH Required Laboratory

- ANT 1005 - Biological Anthropology with Laboratory: GT-SC1 **Credit(s): 4**
- AST 1110 - Astronomy I With Lab: GT-SC1 **Credit(s): 4**
- AST 1120 - Astronomy II with Lab: GT-SC1 **Credit(s): 4**
- BIO 1005 - Science of Biology with Lab: GT-SC1 **Credit(s): 4**
- BIO 1111 - General College Biology I with Lab: GT-SC1 **Credit(s): 5**
- BIO 1112 - General College Biology II with Lab: GT-SC1 **Credit(s): 5**
- BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1 **Credit(s): 4**
- BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1 **Credit(s): 4**
- BIO 2104 - Microbiology with Lab: GT-SC1 **Credit(s): 4**
- CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1 **Credit(s): 5**
- CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1 **Credit(s): 5**
- CHE 1005 - Chemistry in Context with Lab: GT-SC1 **Credit(s): 5**
- CHE 1111 - General College Chemistry I with Lab: GT-SC1 **Credit(s): 5**
- CHE 1112 - General College Chemistry II with Lab: GT-SC1 **Credit(s): 5**
- GEO 1011 - Physical Geography: Landforms with Lab: GT-SC1 **Credit(s): 4**
- GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1 **Credit(s): 4**
- GEY 1111 - Physical Geology with Lab: GT-SC1 **Credit(s): 4**
- GEY 1112 - Historical Geology with Lab: GT: SC1 **Credit(s): 4**
- GEY 1135 - Environmental Geology with Lab: GT-SC1 **Credit(s): 4**
- PHY 1105 - Conceptual Physics with Lab: GT-SC1 **Credit(s): 4**
- PHY 1107 - Energy Science & Technology with Lab: GT-SC1 **Credit(s): 4**
- PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1 **Credit(s): 5**
- PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1 **Credit(s): 5**
- PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1 **Credit(s): 5**
- PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1 **Credit(s): 5**
- SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1 **Credit(s): 4**
- SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1 **Credit(s): 4**

Natural & Physical Sciences: (GT-SC2)

Lecture Courses WITHOUT Required Laboratory

- BIO 1016 - Introduction to Human Disease: GT-SC2 **Credit(s): 3**
- SCI 1105 - Science in Society: GT-SC2 **Credit(s): 3**

Course Descriptions

Click here for a Legend of the Course Descriptions

Accounting

ACC 1001 - Fundamentals of Accounting

ACC 1003 - Fundamentals of Accounting Lab

ACC 1011 - Introduction to Financial Accounting

ACC 1012 - Introduction to Managerial Accounting

ACC 1021 - Accounting Principles I

ACC 1025 - Computerized Accounting

ACC 1031 - Income Tax

ACC 1032 - Tax Help Colorado

ACC 1033 - Tax Help Colorado Practicum

ACC 1075-1077 - Special Topics

ACC 2011 - Intermediate Accounting I

ACC 2012 - Intermediate Accounting II

ACC 2016 - Governmental and Not-for-Profit Accounting

ACC 2026 - Cost Accounting

ACC 2075-2077 - Special Topics

ACC 2087 - Cooperative Education

Advanced Academic Achievement

AAA 0050 - Semester Survival

AAA 0070-0077 - Special Topics

AAA 0090 - Academic Achievement Strategies

AAA 0098 - S.T.E.P.S for College Success

AAA 1001 - College 101: The Student Experience

AAA 1009 - Advanced Academic Achievement

AAA 1075-1077 - Special Topics

AAA 2075-2077 - Special Topics

Agriculture

AGE 1102 - Agriculture Economics: GT-SS1

AGE 2105 - Farm and Ranch Management

AGP 1007 - Practical Irrigation Management

AGR 2024 - Integrated Ranch Management

AGR 2160 - World Interdependence-Population and Food: GT-SS3

AGY 1100 - General Crop Production

AGY 2140 - Introductory Soil Science: GT-SC1

ASC 1100 - Animal Sciences

Agriculture Business

AGB 1002 - Foundations of Agri-Business

Agriculture Economics

AGE 2108 - Agricultural Finance

AGE 2110 - Agriculture Marketing

American Sign Language

ASL 1075-1077 - Special Topics

ASL 1101 - Basic Sign Language I

ASL 1102 - Basic Sign Language II

ASL 1125 - Fingerspelling

ASL 1135 - Conversational ASL

ASL 2075-2077 - Special Topics

Anthropology

ANT 1001 - Cultural Anthropology: GT-SS3

ANT 1003 - Introduction to Archaeology: GT-SS3

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

ANT 1075-1077 - Special Topics

ANT 1101 - Exploring Other Cultures I

ANT 1131 - Cultures of the Southwest

ANT 2075-2077 - Special Topics

ANT 2115 - Native Peoples of North America: GT-SS3

ANT 2230 - Southwest US Archaeology

ANT 2550 - Medical Anthropology: GT-SS3

Architecture Engineering/Construction Management

AEC 2700 - International Building Codes

Art

ART 1002 - Visual Concepts 2-D Design

ART 1005 - Digital Art Foundations I

ART 1075-1077 - Special Topics

ART 1110 - Art Appreciation: GT-AH1

ART 1111 - Art History Ancient to Medieval: GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

ART 1113 - Art History

ART 1118 - Art Education Methods

ART 1201 - Drawing I

ART 1202 - Drawing II

ART 1203 - Figure Drawing I

ART 1205 - Drawing for the Graphic Novel

ART 1301 - Painting I

ART 1302 - Painting II

ART 1307 - Watercolor I

ART 1308 - Watercolor II

ART 1401 - Digital Photography I

ART 1403 - Digital Darkroom

ART 1501 - Printmaking I

ART 1601 - Sculpture I

ART 1602 - Sculpture II

ART 1604 - Jewelry and Metalwork I

ART 1605 - Jewelry and Metalwork II

ART 1701 - Handbuilt Clay I

ART 1702 - Handbuilt Clay II

ART 1703 - Ceramics I

ART 1704 - Ceramics II Wheel Throwing

ART 2001 - Art Sampler

ART 2003 - Advanced 3-D Design

ART 2075-2077 - Special Topics

ART 2080 - Internship

ART 2081 - Capstone: Studio Art II

ART 2089 - Capstone: Studio Art

ART 2201 - Drawing III

ART 2203 - Advanced Figure Drawing

ART 2301 - Painting III

ART 2401 - Digital Photography II

ART 2405 - Portrait Photography

ART 2407 - Landscape Photography

ART 2408 - Studio Photography

ART 2603 - Jewelry and Metalwork III

ART 2604 - Jewelry and Metalwork Iv

ART 2702 - Ceramic Sculpture

ART 2703 - Ceramics III Molding and Slip Casting

ART 2901 - Business of Visual Art

ART 2902 - Marketing for Visual Arts

ART 2906 - Studio Art

Astronomy

AST 1075-1077 - Special Topics

AST 1110 - Astronomy I With Lab: GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

AST 2075-2077 - Special Topics

Automotive Service Technology

ASE 1001 - Auto Shop Orientation

ASE 1002 - Introduction to the Automotive Shop

ASE 1003 - Automotive Maintenance I

ASE 1010 - Brakes I

ASE 1011 - Automotive Brake Service II

ASE 1020 - Basic Auto Electricity

ASE 1022 - Automotive Electrical Safety Systems

ASE 1023 - Starting and Charging System

ASE 1024 - Advanced Ignition System Diagnosis & Repair

ASE 1030 - General Engine Diagnosis

ASE 1032 - Ignition System Diagnosis and Repair

ASE 1034 - Automotive Fuel and Emissions Systems I

ASE 1040 - Suspension and Steering I

ASE 1041 - Suspension and Steering II

ASE 1051 - Automotive Manual Transmission/Transaxles & Clutches I

ASE 1052 - Manual Transmission, Transaxles and Clutches II

ASE 1053 - Automotive Drive Axle Overhaul

ASE 1054 - Manual Transmission/Transaxle Diagnosis and Repair

ASE 1060 - Automotive Engine Repair

ASE 1061 - Automotive Engine Repair & Rebuild

ASE 1062 - Automotive Engine Service & Repair

ASE 1063 - Automotive Component Removal and Replacement

ASE 1065 - Automotive Machining

ASE 1070 - Laboratory Experience I

ASE 1071 - Laboratory Experience II

ASE 1072 - Laboratory Experience III

ASE 1075-1077 - Special Topics

ASE 2010 - Automotive Power and ABS Brake Systems

ASE 2020 - Specialized Electronics Training

ASE 2021 - Auto/Diesel Body Electrical

ASE 2031 - Auto/Diesel Computers

ASE 2033 - Auto Fuel Injection and Emissions Systems II

ASE 2034 - Advanced Automotive Emissions

ASE 2035 - Drivability Diagnosis

ASE 2036 - Advanced Drivability Diagnosis/Repair

ASE 2040 - Suspension and Steering III

ASE 2050 - Automatic Transmission/Transaxle Service

ASE 2051 - Automotive Transmission and Transaxle Repair

ASE 2052 - Advanced Automatic Transmissions/Transaxles O/H

ASE 2053 - Advanced Manual Transmission/Transaxles

ASE 2060 - Advanced Engine Diagnosis

ASE 2064 - Introduction Automotive Heating and Air Conditioning

ASE 2065 - Heating and Air Conditioning Systems

ASE 2075-2077 - Special Topics

ASE 2085 - Independent Study

ASE 2087 - Cooperative Education

ASE 2180 - Internship: Basic Electrical and Engine Performance

ASE 2181 - Internship: Basic Heavy Duty and Power Train

ASE 2182 - Internship: General (Summer)

ASE 2183 - Internship: Advanced Electrical & Engine Performance

ASE 2184 - Internship: Advanced Heavy Duty & Power Train

ASE 2210 - Hybrid Vehicle/Electric Vehicle Safety and Operation

Aviation Technology

AVT 1055 - Unmanned Aircraft Systems Flight Training

AVT 2085 - Independent Study

Barber

BAR 1003 - Introduction to Hair & Scalp

BAR 1007 - Introduction to Shaving, Honing & Stropping

BAR 1008 - Intermediate Shaving, Honing & Stropping

BAR 1010 - Introduction to Hair Coloring

BAR 1011 - Intermediate Hair Coloring

BAR 1020 - Introduction to Hair Cutting

BAR 1021 - Intermediate Hair Cutting

BAR 1030 - Introduction to Hair Styling

BAR 1031 - Intermediate Hair Styling

BAR 1040 - Introduction to Permanent Waves & Chemical Relaxers

BAR 1041 - Intermediate Permanent Waves & Chemical Relaxers

BAR 1066 - Introduction to Facial Massages & Skin Care

BAR 1067 - Intermediate Facial Massage & Skin Care

BAR 2003 - Advanced Hair and Scalp

BAR 2007 - Advanced Shaving, Honing & Stropping

BAR 2011 - Advanced Hair Coloring

BAR 2020 - Advanced Hair Cutting

BAR 2031 - Advanced Hair Styling

BAR 2041 - Advanced Permanent Waves &Chemical Relaxers

BAR 2066 - Advanced Facial Massage & Skin Care

Behavioral Health

BEH 1001 - Mental Health Crisis and Intervention: Preparedness and Emp

BEH 1020 - Cultural Comp in Beh Health

BEH 1030 - Behavioral Health Case Management and Clinical Documentation

BEH 1040 - Child, Adult, and Family Advocacy

BEH 1050 - Peer Support Specialist Training

BEH 1060 - Registered Behavioral Technician Training

BEH 2001 - Mental Health Crisis & Intervention: Advoc, Interv, & Resil

BEH 2030 - Applied Therapeutic Communication Skills

SWK 1100 - Social Welfare and Community Agencies with Service Learning

Biology

BIO 1005 - Science of Biology with Lab: GT-SC1

BIO 1006 - Basic Anatomy and Physiology

BIO 1010 - Biology Foundations: Prep for Anatomy & Physiology and Microbiology

BIO 1016 - Introduction to Human Disease: GT-SC2

BIO 1075-1077 - Special Topics

BIO 1111 - General College Biology I with Lab: GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

BIO 2103 - Advanced Human Anatomy

BIO 2104 - Microbiology with Lab: GT-SC1

BIO 2116 - Human Pathophysiology

BIO 2169 - Nucleic Acid Techniques and Molecular Cloning

Business

BUS 1002 - Entrepreneurial Operations

BUS 1015 - Introduction to Business

BUS 1016 - Personal Finance

BUS 1018 - Business Survival Skills

BUS 1021 - Basic Workplace Skills

BUS 1075-1077 - Special Topics

BUS 1081 - Internship

BUS 2016 - Legal Environment of Business

BUS 2017 - Business Communication & Report Writing

BUS 2026 - Business Statistics

BUS 2075-2077 - Special Topics

BUS 2087 - Cooperative Education

BUS 3020 - Business Law and Ethics

BUS 3040 - Business Ethics and Sustainability

BUS 3060 - Management Technology and Information Systems Processes

BUS 4010 - Applied Business Research and Data Analytics

Business Technologies

BTE 1000 - Computer Keyboarding

BTE 1002 - Keyboarding Applications I

BTE 1003 - Keyboarding Applications II

BTE 1008 - Ten-Key by Touch

BTE 1011 - Keyboarding Speed Building I

BTE 1012 - Keyboarding Speed Building II

BTE 1016 - File Management

BTE 1020 - Introduction to Business Practices

BTE 1025 - Records Management

BTE 1028 - Legal Terminology

BTE 1056 - Business Mathematics with Calculators

BTE 1066 - Business Editing Skills

BTE 1075-1077 - Special Topics

BTE 2002 - Office Simulation I

BTE 2003 - Office Simulation II

BTE 2004 - Keyboarding Applications III

BTE 2011 - Legal Formatting

BTE 2013 - Introduction to Legal Office Procedures

BTE 2025 - Office Management

BTE 2029 - Legal Transcription

BTE 2038 - Legal Office Procedures

BTE 2039 - Billing Systems: PC Law

BTE 2075-2077 - Special Topics

BTE 2087 - Cooperative Education/Internship

Carpentry

CAR 1000 - Introduction to Carpentry

CAR 1001 - Basic Safety

CAR 1002 - Hand and Power Tools

CAR 1003 - Carpentry Basics

CAR 1005 - Job Site Layout and Blueprint Reading

CAR 1021 - Floor Framing

CAR 1022 - Wall Framing

CAR 1023 - Roof Framing

CAR 1030 - Windows and Exterior Doors

CAR 1040 - Stair Construction/Layout

CAR 1070 - Clinical: Construction Lab I

CAR 1071 - Clinical: Construction Lab I

CAR 1075-1077 - Special Topics

CAR 1080 - Internship

CAR 1081 - Internship

CAR 2070 - Clinical: Construction Lab I

CAR 2071 - Clinical: Construction Lab I

CAR 2072 - Clinical: Construction Lab I

CAR 2075-2077 - Special Topics

CAR 2080 - Internship

CAR 2081 - Internship

Chemistry

CHE 1004 - Concepts of Chemistry I

CHE 1005 - Chemistry in Context with Lab: GT-SC1

CHE 1009 - General, Organic, and Biochemistry

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

CHE 1075-1077 - Special Topics

CHE 1111 - General College Chemistry I with Lab: GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

CHE 2075-2077 - Special Topics

CHE 2085 - Independent Study

CHE 2111 - Organic Chemistry I with Lab

CHE 2112 - Organic Chemistry II with Lab

Communication

COM 1000 - Workplace Communication

COM 1001 - Employment Strategies

COM 1006 - Violence & Sexual Harassment in the Workplace

COM 1007 - How to Overcome Workplace Negativity

COM 1008 - Dealing with Unacceptable Employee Behavior

COM 1010 - Communicating through Technology

COM 1075-1077 - Special Topics

COM 1105 - Career Communication

COM 1150 - Public Speaking

COM 1250 - Interpersonal Communication: GT-SS3

COM 1300 - Communication and Popular Culture: GT-AH1

COM 2060 - Listening in a Workplace Communication Setting

COM 2061 - Effective Meetings

COM 2062 - Communicating with Impossible People

COM 2063 - Conflict Resolution

COM 2064 - Negotiation

COM 2065 - Effective Presentations

COM 2066 - Decision Making

COM 2068 - Problem Solving

COM 2069 - Leadership

COM 2075-2077 - Special Topics

COM 2080 - Internship

COM 2085 - Independent Study

COM 2089 - Capstone

COM 2220 - Group Communication: GT-SS3

COM 2250 - Organizational Communication

COM 2270 - Gender Communications

COM 2300 - Intercultural Communication: GT-SS3

COM 2400 - Argumentation and Debate

Computer Aided Drafting

CAD 1075-1077 - Special Topics

CAD 1100 - Computer Aided Drafting/2D I

CAD 1101 - Computer Aided Drafting/2D I

CAD 1102 - Computer Aided Drafting/2D II

CAD 1110 - Sketchup

CAD 2075-2077 - Special Topics

CAD 2089 - Capstone

CAD 2220 - Revit Architecture

CAD 2400 - Computer Aided Drafting/3D

CAD 2455 - Solidworks/Mechanical

CAD 2456 - Advanced Solidworks

CAD 2458 - Introduction to Crea Basics

CAD 2459 - Advanced Creo

CAD 2540 - 3DS Max

CAD 2541 - Advanced 3DS Max Character Modeling

CAD 2660 - 3D Printing/Additive Manufacturing

Computer Information Systems

CIS 1002 - Computer Assistive Technology

CIS 1004 - Word Processing with Assistive Technology

CIS 1007 - Voice Recognition: Dragon

CIS 1009 - Management Software and Technical Applications

CIS 1010 - Intro to Computing Technology (Device)

CIS 1015 - Introduction to Computer Information Systems

CIS 1018 - Intro to PC Applications

CIS 1055 - PC Spreadsheet Concepts: (Software Package)

CIS 1067 - Desktop Publishing: (Software)

CIS 1075-1077 - Special Topics

CIS 1078 - Seminar/Workshop

CIS 2018 - Advanced PC Applications

CIS 2020 - Fundamentals of Unix

CIS 2023 - Linux

CIS 2040 - Database Design and Development

CIS 2041 - Advanced Database Design and Development

CIS 2043 - Introduction to Structured Query Language (SQL)

CIS 2068 - Systems Analysis and Design I

CIS 2075-2077 - Special Topics

CIS 2087 - Cooperative Education

CIS 2089 - Capstone

CSC 2034 - C++ Programming

Computer & Networking Technology

CNG 1004 - Intro to TCP/IP

CNG 1020 - A+ Certification Preparation

CNG 1021 - Computer Technician I: A+

CNG 1022 - Computer Technician II: A+

CNG 1024 - Networking I: Network +

CNG 1025 - Networking II: Network +

CNG 1031 - Principles of Information Assurance

CNG 1032 - Network Security Fundamentals

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

CNG 1036 - Guide to IT Disaster Recovery

CNG 1042 - Introduction to Cloud Computing Concepts

CNG 1075-1077 - Special Topics

CNG 2012 - Configuring Windows Server

CNG 2024 - Microsoft Windows Wireless Network

CNG 2040 - Virtual Environment Admin

CNG 2042 - Cloud Computing

CNG 2043 - Cloud Security and Cyber Law

CNG 2051 - Anti Virus Concepts

CNG 2054 - Data Encryption

CNG 2056 - Vulnerability Assessment Level 1

CNG 2057 - Network Defense and Counter Measure

CNG 2058 - Digital Forensics

CNG 2060 - Cisco Network Associate I

CNG 2061 - Cisco Network Associate II

CNG 2062 - Cisco Network Associate III

CNG 2063 - Cisco Network Associate IV

CNG 2075-2077 - Special Topics

CNG 3010 - Fundamentals of Cybersecurity

CNG 3020 - Cyber Law Ethics and Policy

CNG 3030 - Methods of Network Analysis

CNG 3036 - Business Continuity and Disaster Recovery

CNG 3040 - Cyber Operations

CNG 3050 - Cyber Investigation and Forensics

CNG 3056 - Vulnerability Assessment II

CNG 4000 - Active Cyber Defense

CNG 4010 - Cyber Threat Intelligence

CNG 4020 - Zero Trust Networks

CNG 4030 - Cyber War

CNG 4054 - Malware Threats and Analysis

CNG 4080 - Internship

Computer Science

CSC 1019 - Introduction to Programming: (Programming Language)

CSC 1020 - Problem Solving with Java

CSC 1029 - Introduction to Secure Coding

CSC 1060 - Computer Science I: (Language)

CSC 1061 - Computer Science II: (Language)

CSC 1075-1077 - Special Topics

CSC 2017 - Advanced Python Programming

CSC 2030 - C Programming: Platform

CSC 2040 - Java Programming

CSC 2041 - Advanced Java Programming

CSC 2045 - Secure Software Development: (Language)

CSC 2046 - Mobile App Development

CSC 2067 - Object-Oriented Analysis and Design

CSC 2075-2077 - Special Topics

CSC 3000 - Advanced Computer Architecture

CSC 3020 - Software Engineering Fundamentals

CSC 3022 - Security Fundamentals and Databases

CSC 3024 - Secure Coding Vulnerabilities I

CSC 3026 - Secure Scripting of Operating Systems

CSC 3028 - Security Libraries in Programming Languages

CSC 4022 - Secure Software Engineering

CSC 4024 - Secure Code Vulnerabilities II

CSC 4026 - Secure Cloud Programming

CSC 4028 - Software Security Testing

Computer Web-Based

CWB 1010 - Complete Web Authoring: (Scripting Language)

CWB 1030 - Web Editing Tools: (Editor)

CWB 1075-1077 - Special Topics

CWB 1085 - Independent Study

CWB 2005 - Client-Side Scripting: (Software)

CWB 2006 - Server-Side Scripting: (Software)

CWB 2008 - Web Application Development: (Development Tool(s))

CWB 2009 - Web Content Management Systems

CWB 2021 - Technology Foundations for E-commerce

CWB 2075-2077 - Special Topics

CWB 2087 - Cooperative Education

Construction Technology

CON 1005 - Construction Technology

CON 1006 - Site Prep through Foundation

CON 1010 - Introduction to Construction, Part 1

CON 1011 - Introduction to Construction, Part 2

CON 1012 - Basic Repairs for Home or Apartment

CON 1020 - Building Materials and Environmental Impact

CON 1038 - Plumbing & Electric Fundamentals

CON 1040 - Introduction to Building Codes & Enforcement

CON 1051 - Introduction to the Construction Process

CON 1057 - National Center for Construction Education & Research Core

CON 1058 - National Center for Construction Education & Research Carpentry I

CON 1062 - National Center for Construction Education & Research Electrical I

CON 1066 - National Center for Construction Education & Research Plumbing I

CON 1075-1077 - Special Topics

CON 2030 - Blueprint Reading

CON 2043 - Project Supervision

CON 2044 - Concrete and Asphalt Technology

CON 2045 - Project Management

CON 2046 - Fundamentals of Crew Leadership

CON 2075-2077 - Special Topics

CON 2080 - Internship

Cosmetology

COS 1003 - Shampoo/Rinses/Conditioners I

COS 1010 - Introduction to Hair Coloring

COS 1011 - Intermediate: Hair Coloring

COS 1020 - Introduction to Hair Cutting

COS 1021 - Intermediate I: Haircutting

COS 1030 - Introduction to Hair Styling

COS 1031 - Intermediate I: Hair Styling

COS 1040 - Introduction to Chemical Texture

COS 1041 - Intermediate I: Chemical Texture

COS 1050 - Laws, Rules and Regulations

COS 1060 - Introduction to Disinfection, Sanitation & Safety

COS 1061 - Intermediate I: Disinfection, Sanitation & Safety

COS 1075-1077 - Special Topics

COS 2003 - Shampoo/Rinses/Conditioners II

COS 2010 - Intermediate II: Hair Coloring

COS 2011 - Advanced Hair Coloring

COS 2020 - Intermediate II: Haircutting

COS 2021 - Advanced Hair Cutting

COS 2030 - Intermediate II: Hair Styling

COS 2031 - Advanced Hair Styling

COS 2040 - Intermediate II: Chemical Texture

COS 2041 - Advanced Chemical Texture

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

COS 2060 - Intermediate II: Disinfection, Sanitation & Safety

COS 2061 - Advanced Disinfection, Sanitation & Safety

COS 2062 - Advanced II: Disinfection, Sanitation & Safety

COS 2075-2077 - Special Topics

Counseling

CSL 2046 - Ethical Practice in Addiction Treatment

CSL 2048 - Advanced Case Conceptualization

CSL 2050 - Motivational Interviewing I

CSL 2051 - Pharmacology I for Addiction Counselors

CSL 2052 - Advanced Pharmacology

CSL 2053 - Cognitive Behavior Therapy

CSL 2054 - Trauma Informed Care

CSL 2055 - Infectious Diseases for Addiction Counselors

CSL 2056 - Co-occurring Disorders

CSL 2057 - Professional Counseling Ethics II

CSL 2058 - Group Counseling Skills

CSL 2059 - Advanced Professional and Ethical Practice

CSL 2061 - Case Conceptualization and Documentation

CSL 2065 - Culturally Informed Treatment

CSL 2068 - Addictions Counseling Skills

CSL 2069 - Principles of Addiction

Criminal Justice

CRJ 1010 - Intro to Criminal Justice: GT-SS3

CRJ 1025 - Policing Systems

CRJ 1027 - Crime Scene Investigation

CRJ 1035 - Judicial Function

CRJ 1045 - Correctional Process

CRJ 1075-1077 - Special Topics

CRJ 2005 - Principles of Criminal Law

CRJ 2009 - Criminal Investigation I

CRJ 2010 - Constitutional Law

CRJ 2030 - Criminology

CRJ 2031 - Introduction to Forensic Science and Criminalistics

CRJ 2035 - Delinquent Behavior

CRJ 2036 - CRJ Research Methods

CRJ 2068 - Criminal Profiling

CRJ 2075-2077 - Special Topics

CRJ 2080 - Cooperative Education/internship

Culinary Arts

CUA 1025 - Introduction to Foods

CUA 1029 - Center of the Plate

CUA 1031 - Starches, Pastas, Casseroles and Grain Products

Dance

DAN 1011 - Modern Dance I

DAN 1021 - Jazz I

DAN 1025 - Dance Appreciation: AH1

DAN 1029 - Introduction to Dance

DAN 1031 - Ballet I

DAN 1041 - Ballroom Dance

DAN 1050 - Dance History: AH1

DAN 1075-1077 - Special Topics

DAN 2075-2077 - Special Topics

Dental Assisting

DEA 2011 - Introduction to Expanded Functions

DEA 2021 - Expanded Functions for the Dental Auxiliary

Dental Hygiene

DEH 1001 - Preclinical Dental Hygiene Lecture

DEH 1002 - Preclinical Dental Hygiene Care

DEH 1003 - Dental Anatomy and Histology

DEH 1004 - Dental Radiology

DEH 1005 - Introduction to Dental Hygiene

DEH 1011 - Dental and Medical Emergencies

DEH 1022 - Periodontics I

DEH 1023 - Head & Neck Anatomy

DEH 1026 - Dental Materials

DEH 1032 - Applied Pharmacology

DEH 1033 - Local Anesthesia

DEH 1034 - Advanced Clinical Skills

DEH 1036 - Clinical Dental Roentgenology

DEH 1038 - Nitrous Oxide/Oxygen Sedation

DEH 1053 - Clinical Theory of Dental Hygiene I

DEH 1070 - Clinical Practice of Dental Hygiene I

DEH 1071 - Clinical Practice of Dental Hygiene I-A

DEH 1075-1077 - Special Topics

DEH 2002 - Applied Nutrition in Dentistry

DEH 2004 - Community Dental Health I

DEH 2013 - General and Oral Pathology

DEH 2021 - Ethics and Practice Management

DEH 2025 - Community Dental Health II: Field Experience

DEH 2042 - Periodontics II

DEH 2059 - Advanced Dental Hygiene Theory

DEH 2066 - National Boards Review

DEH 2068 - Clinical Theory of Dental Hygiene II

DEH 2070 - Clinical Practice of Dental Hygiene II

DEH 2071 - Clinical Practice of Dental Hygiene III

DEH 2075-2077 - Special Topics

DEH 2082 - Periodontics III

DEH 2085 - Clinical Theory of Dental Hygiene III

DEH 3001 - Advanced Careers in Dental Hygiene

DEH 3002 - Applied Dental Hygiene Research Methodologies

DEH 3041 - Clinical Teaching Methodologies

DEH 3043 - Principles of Conflict Resolution in Dentistry

DEH 3055 - Social and Behavioral Determinants of Oral Health

DEH 3087 - Dental Hygiene Leadership and Administration

DEH 4011 - Teaching Methodologies

DEH 4055 - Topics in Dental Public Health

DEH 4071 - Advanced Pharmacology

DEH 4089 - Capstone: Dental Hygiene

Diagnostic Medical Sonography

DMS 1001 - Introduction to Sonography

DMS 1075-1077 - Special Topics

DMS 2001 - Ultrasound Physics I

DMS 2002 - Ultrasound Physics II

DMS 2076-2077 - Special Topics

DMS 2080 - Clinical Observation

DMS 2081 - Clinical Internship I

DMS 2082 - Clinical Internship II

DMS 2083 - Clinical Internship III

DMS 2089 - Ultrasound Capstone

DMS 2100 - Small Parts Ultrasound

DMS 2101 - Abdominal Ultrasound I

DMS 2102 - Abdominal Ultrasound II

DMS 2111 - Ultrasound Scanning Lab

DMS 2201 - OB/GYN Ultrasound I

DMS 2202 - OB/GYN Ultrasound II

DMS 2400 - Vascular Ultrasound

Diesel Power Mechanics

DPM 1001 - Diesel Shop Orientation

DPM 1003 - Diesel Engines I

DPM 1005 - Heavy Duty Powertrains I

DPM 1006 - Diesel Fuel Systems

DPM 1011 - Preventive Maintenance I

DPM 1021 - Hydraulic Systems I

DPM 1022 - Hydraulic Systems II

DPM 1040 - H/D Steering & Suspension I

DPM 1070 - Lab Experience I

DPM 1071 - Lab Experience II

DPM 1072 - Lab Experience III

DPM 1075-1077 - Special Topics

DPM 2003 - Diesel Engines II

DPM 2005 - Heavy Duty Powertrains II

DPM 2006 - Heavy Duty Brakes I

DPM 2007 - Heavy Duty Brakes II

DPM 2022 - H/D Lighting & Instrumentation

DPM 2040 - H/D Steering & Suspension II

DPM 2075-2077 - Special Topics

DPM 2080 - Internship

Drafting and Design Technology

AEC 1075-1077 - Special Topics

AEC 1200 - Print Reading Residential/Commercial

AEC 1231 - Residential Construction Drawing

AEC 1232 - Commercial Construction Drawing

AEC 1520 - Construction Materials and Systems

AEC 2075-2077 - Special Topics

Driving

DRV 1030 - Preparing for CDL

DRV 1032 - Trucks and Trailering

DRV 1034 - Trucking Laws & Regulations

DRV 1036 - Vehicle Inspection & Maintenance

DRV 1038 - Driver Training

DRV 1075-1077 - Special Topics

DRV 2075-2077 - Special Topics

Early Childhood Education

ECE 1011 - Introduction to Early Childhood Education

ECE 1031 - Guidance Strategies for Young Children

ECE 1045 - Introduction to Early Childhood Techniques

ECE 1075-1077 - Special Topics

ECE 1078 - Workshop

ECE 1111 - Infant and Toddler Theory and Practice

ECE 1125 - Intro to Infant/Toddler Lab Techniques

ECE 2051 - Nutrition, Health and Safety

ECE 2075-2077 - Special Topics

ECE 2088 - Practicum: Early Childhood Education

ECE 2101 - Working with Parents, Families, and Community Systems

ECE 2381 - Ece Child Growth and Development

ECE 2401 - Administration of Early Childhood Care and Education Programs

ECE 2411 - Administration: Human Relations for Early Childhood Education

ECE 2601 - The Exceptional Child

ECE 2621 - ECE Curriculum Development: Methods and Techniques

ECE 2631 - Language and Cognition for the Young Child

ECE 2641 - Creativity and the Young Child

ECE 2661 - Science/Math and the Young Child

Economics

ECO 1005 - Introduction to Economics

ECO 1075-1077 - Special Topics

ECO 2001 - Principles of Macroeconomics: GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

ECO 2075-2077 - Special Topics

EDU 2601 - Adult Learning and Teaching

Education

EDU 2088 - Practicum II

EDU 2221 - Effective Teaching

EDU 2341 - Multicultural Education

EDU 2401 - Teaching the Exceptional Learner

EDU 2611 - Teaching, Learning and Technology

EDU 2631 - Teaching and Learning Online

Electricity Industrial/Commercial

EIC 1075 - Special Topics

EIC 1101 - Job Training & Safety

EIC 2075 - Special Topics

Electronics

ELT 1075 - Special Topics

ELT 1206 - Fundamentals of DC/AC

ELT 1207 - Industrial Electronics

ELT 1212 - Advanced DC-AC

ELT 2075 - Special Topics

ELT 2080 - Internship

ELT 2089 - Capstone: Automated Systems

ELT 2252 - Motors and Controls

ELT 2254 - Industrial Wiring

ELT 2357 - Sensors and Transducers

ELT 2358 - Programmable Logic Controllers

ELT 2359 - Advanced Programmable Logic Controllers

Emergency Medical Services

EMS 1015 - Emergency Medical Responder

EMS 1021 - EMT Fundamentals

EMS 1022 - EMT Medical Emergencies

EMS 1023 - EMT Trauma Emergencies

EMS 1024 - EMT Special Considerations

EMS 1026 - EMT Basic Refresher

EMS 1070 - EMT Clinical

EMS 1071 - AEMT Clinical Internship

EMS 1075-1077 - Special Topics

EMS 1078 - EMS Seminar

EMS 1080 - EMT Clinical Internship

EMS 1125 - AEMT Fundamentals

EMS 1127 - AEMT Special Considerations

EMS 1131 - AEMT Pharmacology and IV Therapy

EMS 1132 - EMS Intravenous / Intraosseous Therapy

EMS 1133 - AEMT Medical Emergencies

EMS 1135 - AEMT Trauma Emergencies

EMS 2020 - Paramedic Refresher

EMS 2025 - Fundamentals of Paramedic Practice

EMS 2026 - Fundamentals of Paramedic Practice - Lab

EMS 2027 - Paramedic Special Considerations

EMS 2028 - Paramedic Special Considerations Lab

EMS 2029 - Paramedic Pharmacology

EMS 2030 - Paramedic Pharmacology Lab

EMS 2031 - Paramedic Cardiology

EMS 2032 - Paramedic Cardiology Lab

EMS 2033 - Paramedic Medical Emergencies

EMS 2034 - Paramedic Medical Emergencies Lab

EMS 2035 - Paramedic Trauma Emergencies

EMS 2036 - Paramedic Trauma Emergencies Lab

EMS 2037 - Paramedic Internship Preparatory

EMS 2075 - Special Topics

EMS 2080 - Paramedic Internship I

EMS 2081 - Paramedic Internship II

EMS 2085 - Independent Study

EMS 3010 - Clinical Assessment and De-escalation Techniques

EMS 3011 - Motivational Interviewing for EMS

EMS 3012 - Trauma Informed Care and Assessment

EMS 3030 - Community Advocacy and Outreach

EMS 3031 - Community Assessment

EMS 4025 - Fundamentals of Advanced Paramedic Practice

EMS 4030 - Care and Prevention Development Strategies

EMS 4033 - Advanced Paramedic Medical Care

EMS 4035 - Advanced Paramedic Trauma Care

EMS 4089 - Capstone

Engineering

EGG 1010 - Engineering Graphics I

EGG 1020 - Engingeering Methodologies

EGG 1040 - Engineering Projects

EGG 1075-1077 - Special Topics

EGG 2006 - Engineering Surveying I

EGG 2007 - Engineering Surveying II

EGG 2011 - Engr Mechanics I - Statics

EGG 2012 - Engineering Mechanics II (Dynamics)

EGG 2020 - Thermodynamics

EGG 2071 - Theoretical Mechanics-Statics

EGG 2075-2077 - Special Topics

Engineering Graphics Techology

EGT 2075 - Special Topics

EGT 2200 - Civil/Survey Drafting I

EGT 2202 - Civil/Survey Drafting II

EGT 2305 - Geometric Dimension & Tolerance

English

ENG 0090 - College Composition and Reading

ENG 0093 - Studio D

ENG 0094 - Studio 121

ENG 0095 - Studio 1021 for Multilingual Learners

ENG 1013 - Business English

ENG 1021 - English Composition I: GT-CO1

ENG 1022 - English Composition II:GT-CO2

ENG 1031 - Technical Writing I

ENG 1032 - Technical Writing II

ENG 1075 - Special Topics

ENG 2001 - Composition III: Writing for Public Discourse GT-CO3

ENG 2021 - Creative Writing I

ENG 2022 - Creative Writing II

ENG 2028 - Writing for the Graphic Novel

ENG 2030 - Creative Nonfiction

ENG 2031 - Literary Magazine

ENG 2038 - Writing the Novel 1

ENG 2075 - Special Topics

Entrepreneurship

ENP 1005 - Introduction to Entrepreneurship

ENP 1006 - Entrepreneurship Opportunity Analysis/Feasibility Study

ENP 2005 - Marketing for the Entrepreneur

ENP 2006 - Entrepreneurship Legal Issues

ENP 2007 - Entrepreneurship Financial Topics

ENP 2009 - Entrepreneurship Business Plan

Environmental Science

ENV 1111 - Environmental Science with Lab: GT-SC1

ENV 2075 - Special Topics

Esthetician

EST 1001 - Steril/Sani & Safety

EST 1010 - Introduction to Skin Care

EST 1011 - Intermediate Skin Care

EST 1060 - Introduction to Disinfection, Sanitation & Safety

EST 1061 - Intermediate Disinfection, Sanitation & Safety

EST 2010 - Advanced Skin Care

EST 2011 - Make-up for Skin Care Professionals

EST 2012 - Hair Removal

EST 2075 - Special Topics

Ethics

ETH 2000 - Introduction to Ethnic Studies: GT-SS3

ETH 2024 - Introduction to Chicano Studies

ETH 2075 - Special Topics

Facilities Maintenance Techology

FMT 1101 - Housekeeping

FMT 1103 - Cleaning Chemicals

FMT 1201 - Facilities Maintenance - Electricity

FMT 1801 - Job Survival Skills

FMT 1804 - Custodian Personnel Management

Fire Science Technology

FST 1000 - Firefighter I

FST 1001 - Firefighter II

FST 1002 - Principles/Emergency Services

FST 1003 - Fire Behavior & Combustion

FST 1005 - Building Construction for Fire Protection

FST 1006 - Fire Prevention

FST 1007 - Hazardous Materials Operations (Level I)

FST 1008 - Firefighter Professional Preparation

FST 1009 - Occupational Safety & Health

FST 1010 - Job Placement and Assessment

FST 1021 - Technical Rope Rescue

FST 1026 - Vehicle Extrication Awareness Level

FST 1027 - Vehicle Extrication Operations Level

FST 1028 - Vehicle Extrication Technician Level

FST 1032 - Structural Collapse

FST 1033 - Trench Rescue

FST 1034 - Confined Space Rescue

FST 1035 - Ice Water Rescue

FST 1036 - Swift Water Rescue

FST 1050 - Introduction to Fire Prevention Education

FST 1051 - Driver-Operator

FST 1060 - Candidate Physical Abilities Test Prep

FST 1075 - Special Topics

FST 2001 - Instructional Methodology

FST 2002 - Strategy and Tactics

FST 2003 - Fire Hydraulics & Water Supply

FST 2004 - Principles of Code Enforcement

FST 2005 - Fire Investigation I

FST 2006 - Fire Co Superv and Leadership

FST 2007 - Firefighting Strategy and Tactics II

FST 2008 - Fire Plans Review and Acceptance Testing

FST 2009 - Fire Protection Systems

FST 2051 - Legal Aspects of Fire Service

FST 2052 - Fire Investigation II

FST 2053 - NIMS

FST 2054 - Hazardous Materials Technician Level

FST 2055 - Fire Service Management

FST 2057 - Fire Department Administration

FST 2075 - Special Topics

Fire Science Wildland

FSW 1000 - S-190 Introduction to Wildland Fire Behavior

FSW 1001 - S-130 Firefighting Training

FSW 1002 - S-131 Firefighter Type I

FSW 1003 - D-110 Dispatch Recorder with Introduction to Ross

FSW 1004 - I-100 Introduction to ICS

FSW 1005 - L-180 Human Factors on the Fire Lane

FSW 1043 - S-212 Wildfire Chain Saws

FSW 1053 - S-290 Intermediate Wildland Fire Behavior

FSW 1075-1077 - Special Topics

FSW 2075-2077 - Special Topics

Floral Design

FLD 1000 - Introductory Floral Design

French

FRE 2011 - French Language III: GT-AH4

FRE 2012 - French Language IV: GT-AH4

Geography

GEO 1005 - World Regional Geography: GT-SS2

GEO 1006 - Human Geography: GT-SS2

GEO 1011 - Physical Geography: Landforms with Lab: GT-SC1

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

GEO 1075 - Special Topics

GEO 2075 - Special Topics

Geology

GEY 1075 - Special Topics

GEY 1111 - Physical Geology with Lab: GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

GEY 1135 - Environmental Geology with Lab: GT-SC1

GEY 2075 - Special Topics

German

GER 2011 - German Language III: GT-AH4

GER 2012 - German Language IV: GT-AH4

Health Information Management

HIM 3000 - Data Structure and Design in HIM – Domain I

HIM 3005 - Health Record Compliance and Data Integrity – Domain I

HIM 3010 - Health Information Governance – Domain I

HIM 3015 - Health Privacy and Security – Domain II

HIM 3020 - Health Information Systems – Domain III

HIM 3025 - Data Analytics and Visualization in Healthcare – Domain III

HIM 3030 - Data Use and Management in Healthcare – Domain III

HIM 4000 - Revenue Cycle Management – Domain IV

HIM 4005 - Health Law and Compliance – Domain V

HIM 4010 - Management and Leadership in Healthcare – Domain VI

HIM 4015 - Human Resources and Financial Mgmt in Healthcare – Domain VI

HIM 4020 - Org Ldshp for DEI in Healthcare-Domain VI

HIM 4089 - HIM Capstone Course

Health Information Technology

HIT 1001 - Health Information Management Science

HIT 1002 - Medical Vocabulary for Documentation

HIT 1005 - Principles of Healthcare Reimbursement

HIT 1011 - Health Data Management and Information Systems

HIT 1012 - Legal Aspects for Health Records

HIT 1020 - Working with Health IT Systems

HIT 1021 - Networking and Health Info

HIT 1022 - Workflow Fund of Healthcare

HIT 1023 - Configuring EHRS

HIT 1024 - Public Health IT

HIT 1050 - Healthcare Delivery Systems

HIT 1075 - Special Topics

HIT 1088 - Health Information Practicum I

HIT 1089 - Practicum

HIT 2020 - ICD Coding I

HIT 2022 - Quality Management

HIT 2025 - Health Information Management

HIT 2041 - CPT Coding Basic Principles

HIT 2052 - ICD Coding II for Certification

HIT 2061 - Healthcare Software

HIT 2064 - Data Visualization

HIT 2065 - Data Analytics Applications

HIT 2068 - Certification Test Preparation

HIT 2075 - Special Topics

HIT 2088 - HIT Capstone Course

HIT 2089 - HIT Capstone Course

Health & Wellness

HWE 1001 - Community First Aid and CPR

HWE 1050 - Human Nutrition

HWE 1060 - Weight Loss

HWE 1062 - Health and Wellness

HWE 1075 - Special Topics

HWE 2075 - Special Topics

Health Professional

HPR 1000 - Introduction to Health

HPR 1007 - Computers in Healthcare

HPR 1008 - Law & Ethics for Health Professions

HPR 1010 - Dietary Nutrition

HPR 1011 - CPR for Professionals: Professional Rescuer

HPR 1017 - Anatomical Kinesiology

HPR 1032 - Disease Process and Treatment

HPR 1038 - Introduction to Medical Terminology

HPR 1039 - Medical Terminology

HPR 1040 - Comprehensive Medical Terminology

HPR 1045 - Medical Record Terminology

HPR 1050 - Basic EKG Interpretation

HPR 1075 - Special Topics

HPR 1080 - Internship

HPR 2011 - ACLS

HPR 2012 - ACLS Instructor Course

HPR 2013 - Pediatric Advanced Life Support

HPR 2014 - Pediatric Advanced Life Support Renewal

HPR 2015 - Pediatric Advanced Life Support Instructor

HPR 2020 - Advanced Phlebotomy

HPR 2050 - Advanced ECG Interpretations

HPR 2075 - Special Topics

HPR 3001 - Communications in Health Care

HPR 3010 - Quality Improvement in Health Care

HPR 4003 - Critical Review of Healthcare Research

HPR 4011 - Leadership and Management in Health Professions

HPR 4038 - Pedagogy in Health Professions

HPR 4089 - Inter-Professional Capstone

Heavy Equipment

HEQ 1050 - Basic Principles of Engine Operation and Drive Train

HEQ 2020 - Motor Grader I

HEQ 2021 - Motor Grader II

HEQ 2025 - Backhoe I

HEQ 2026 - Backhoe II

HEQ 2030 - Hydraulic Excavator

HEQ 2040 - Basic Bulldozer I

HEQ 2041 - Bulldozer II

HEQ 2046 - Front End Loader II

HEQ 2075 - Special Topics

History

HIS 1075-1077 - Special Topics

HIS 1110 - The World: Antiquity-1500: GT-HI1

HIS 1120 - The World: 1500-present: GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

HIS 1320 - Western Civ: 1650-present: GT-HI1

HIS 2015 - 20th Century World History: GT-HI1

HIS 2075-2077 - Special Topics

HIS 2080 - Internship

HIS 2115 - American Indian History: GT-HI1

HIS 2135 - Colorado History: GT-HI1

HIS 2300 - The Middle Ages:GT-HI1

Horticulture

HLT 1000 - Horticulture Science

HLT 1060 - Greenhouse Management

HLT 1075 - Special Topics

HLT 1101 - Introduction to Horticulture

HLT 2008 - Pesticide Safety and Use

HLT 2021 - Woody Landscape Plants I

HLT 2022 - Woody Plants: Shrubs & Vines

HLT 2023 - Annuals, Bulbs, and Grasses

HLT 2075 - Special Topics

Hospitality Studies

HOS 1005 - Introduction to Management in the Hospitality Industry

HOS 1010 - Introduction to Hospitality

HOS 1022 - Travel Destinations in the Western Hemisphere

HOS 1023 - Travel Destinations in the Eastern Hemisphere

HOS 1031 - Planning for Special Events

HOS 1041 - Convention Management

HOS 1075-1077 - Special Topics

HOS 2007 - Tour Management

HOS 2075 - Special Topics

Humanities

HUM 1003 - Introduction to Film Art: GT-AH2

HUM 1015 - World Mythology: GT-AH2

HUM 1021 - Humanities: Early Civilization: GT-AH2

HUM 1022 - Humanities: Medieval - Modern: GT-AH2

HUM 1023 - Humanities: Modern World: GT-AH2

HUM 1031 - The Arts and Cultures of Mexico

HUM 1075 - Special Topics

HUM 1075-1077 - Special Topics

HUM 2036 - North American Indian Arts

HUM 2037 - Hispanic Arts of the American Southwest

HUM 2038 - Sacred Images, Sacred Spaces: Southwestern US

HUM 2066 - Documentary Film: from Traditional to Experimental

Industrial Technology Maintenance

ENY 1000 - Introduction to Energy Technologies

ENY 1075-1077 - Special Topics

ENY 1621 - Solar Photovoltaic Components

ENY 1632 - NABCEP Entry Level Prep Class

ENY 1655 - Solar Photovoltaic Field Lab Experience

ENY 1702 - Building Energy Audit Tech

IMA 1400 - Basic Fluid Power

IMA 1500 - Pump, Seals, Rotating Equipment

Jewelry Repair and Design

JRD 1002 - Beginning Stone Setting I

JRD 1011 - Jewelry Shop I

JRD 1012 - Jewelry Shop II

JRD 2015 - Jewelry Design I

JRD 2016 - Jewelry Design II

JRD 2018 - Jewelry Presentation & Photography

JRD 2021 - Jewelry Portfolio

JRD 2075 - Special Topics

JRD 2080 - Internship

Journalism

JOU 1005 - Introduction to Mass Media: GT SS3

JOU 1006 - Media News and Reporting

JOU 1075 - Special Topics

JOU 2006 - Intermediate Newswriting and Editing

JOU 2025 - New Media

JOU 2075 - Special Topics

Law Enforcement Academy

LEA 1001 - Basic Police Academy I

LEA 1002 - Basic Police Academy II

LEA 1003 - Basic Law Enforcement Academy III

LEA 1005 - Basic Law

LEA 1006 - Arrest Control Techniques

LEA 1007 - Law Enforcement Driving

LEA 1008 - Firearms

LEA 1018 - Police Report Writing

LEA 1075 - Special Topics

Library Technician

LTN 1001 - Introduction to Library Services

LTN 1010 - Selection and Acquisitions

LTN 1015 - Library Circulation

LTN 2005 - Introduction to Cataloging & Classification

LTN 2010 - Reference Materials

LTN 2020 - Library/Media Center Management & Public Relations

LTN 2075 - Special Topics

Literature

LIT 1015 - Introduction to Literature I: GT-AH2

LIT 1026 - Study of Poetry

LIT 1075 - Special Topics

LIT 2001 - World Literature to 1600: GT-AH2

LIT 2002 - World Literature After 1600: GT-AH2

LIT 2005 - Race. Ethnicity, and Culture in U.S. Literature: GT-AH2

LIT 2011 - American Literature to Civil War: GT-AH2

LIT 2012 - American Literature After Civil War: GT-AH2

LIT 2025 - Introduction to Shakespeare: GT-AH2

LIT 2046 - Literature of Women: GT-AH2

LIT 2055 - Children's Literature

LIT 2057 - Literature and Film

LIT 2059 - Survey of African American Literature: GT-AH2

LIT 2068 - Celtic Literature: GT-AH2

LIT 2069 - Popular Literature and Culture

LIT 2075 - Special Topics

Machining

MAC 1000 - Machine Shop Safety

MAC 1002 - Print Reading for Machinists

MAC 1005 - Introduction to Machining Technology

MAC 1030 - Conventional Lathe Operations

MAC 1031 - Milling Machines & Operations

MAC 1041 - Advanced Machining Operations

MAC 1075 - Special Topics

MAC 2003 - Introduction to CNC Operations

MAC 2008 - CNC Operations II

MAC 2041 - CAD CAM 2D Lab

MAC 2043 - Mastercam

MAC 2050 - Advanced Inspection Techniques

MAC 2056 - Industrial Components

MAC 2065 - Mechanical Components

MAC 2075 - Special Topics

Management

MAN 1002 - Business Ethics and Values

MAN 1003 - Managing Business Change

MAN 1004 - Managing Workplace Stress

MAN 1005 - Logistics Management

MAN 1016 - Principles of Supervision

MAN 1017 - Time Management

MAN 1025 - Team Building

MAN 1026 - Total Quality Management

MAN 1028 - Human Relations in Organizations

MAN 1075-1077 - Special Topics

MAN 2000 - Human Resource Management I

MAN 2001 - Human Resource Management II

MAN 2015 - Organizational Behavior

MAN 2016 - Small Business Management

MAN 2024 - Leadership

MAN 2025 - Managerial Finance

MAN 2026 - Principles of Management

MAN 2041 - Project Management in Organizations

MAN 2075-2077 - Special Topics

MAN 2089 - Capstone: Management Information Systems

MAN 3030 - Contemporary Management

MAN 3050 - Innovation and Change Management

MAN 3060 - Operations Management

MAN 4030 - Organizational Leadership

MAN 4040 - Strategic Management

MAN 4060 - Human Resources and Supervisory Management

Manufacturing Technology

MTE 1075-1077 - Special Topics

MTE 1100 - Print Reading Manufacturing

MTE 1101 - Introduction to Manufacturing

MTE 1102 - Safety Manufacturing Environment

MTE 1110 - Applied Communication and Teamwork in Industry

MTE 1200 - Manufacturing Processes

MTE 1220 - Lean Manufacturing Prac/Proc

MTE 2089 - Manufacturing Capstone

MTE 2320 - Fluid Power Control

MTE 2330 - Strength of Materials

Marketing

MAR 1058 - Basic Customer Service

MAR 1060 - Customer Service

MAR 1075 - Special Topics

MAR 2016 - Principles of Marketing

MAR 2020 - Principles of Advertising

MAR 2075 - Special Topics

MAR 3040 - Business Practical Marketing

MAR 4010 - Digital Marketing and Analytics

Math

MAT 0200 - Algebraic Literacy Lab

MAT 0250 - Quantitative Literacy

MAT 0300 - Algebraic Literacy

MAT 1075 - Special Topics

MAT 1120 - Math for Clinical Calculations

MAT 1140 - Career Math

MAT 1150 - Technical Mathematics

MAT 1160 - Financial Mathematics

MAT 1220 - Integrated Math I: GT-MA1

MAT 1230 - Integrated Math II: MA1

MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

MAT 1260 - Introduction to Statistics: GT-MA1

MAT 1320 - Finite Mathematics: GT-MA1

MAT 1340 - College Algebra: GT-MA1

MAT 1400 - Survey of Calculus: GT-MA1

MAT 1420 - College Trigonometry: GT-MA1

MAT 2075 - Special Topics

MAT 2410 - Calculus I: GT-MA1

MAT 2420 - Calculus II: GT-MA1

MAT 2430 - Calculus III: GT-MA1

MAT 2431 - Calculus III with Engineering Applications: GT-MA1

MAT 2520 - Discrete Mathematics: GT-MA1

MAT 2540 - Linear Algebra

MAT 2560 - Differential Equations: GT-MA1

MAT 2561 - Differential Equations with Engineering Applications: GT-MA1

Medical Assistant Professional

MAP 1010 - Medical Office Administration

MAP 1020 - Medical Office Financial Management

MAP 1050 - Pharmacology for Medical Assistants

MAP 1083 - Medical Assistant Internship

MAP 2038 - Medical Assisting Laboratory

MAP 2040 - Medical Assisting Clinical Skills

MAP 2069 - Review for Medical Assistant National Exam

Medical Office Technology

MOT 1025 - Basic Medical Sciences I

MOT 1026 - Basic Medical Sciences II

MOT 1027 - Basic Medical Sciences III

Meteorology

MET 1050 - General Meteorology with Lab: GT-SC1

Multimedia and Graphic Design

MGD 1001 - Introduction to Computer Graphics

MGD 1002 - Introduction to Multimedia

MGD 1006 - Creativity and Visual Thinking

MGD 1007 - History of Design

MGD 1011 - Adobe Photoshop I

MGD 1012 - Adobe Illustrator I

MGD 1013 - Adobe InDesign

MGD 1015 - Typography & Layout

MGD 1017 - Introduction to Visual Communications

MGD 1033 - Graphic Design I

MGD 1037 - Illustration I

MGD 1041 - Web Design I

MGD 1043 - Motion Graphic Design I: (Software)

MGD 1063 - Sound Design I

MGD 1064 - Digital Video Editing I

MGD 1067 - Game Design I

MGD 1075-1077 - Special Topics

MGD 2002 - Point of Purchase Packaging Design

MGD 2011 - Adobe Photoshop II

MGD 2021 - Computer Graphics I

MGD 2022 - Computer Graphics II

MGD 2027 - Marcomm Practices

MGD 2033 - Graphic Design II

MGD 2041 - Web Design II

MGD 2042 - Web Architecture: Open Source Design

MGD 2043 - Web Motion Graphic Design II

MGD 2056 - Graphic Design Production

MGD 2064 - Digital Video Editing II

MGD 2068 - Business for Creatives

MGD 2075-2077 - Special Topics

MGD 2080 - Internship

MGD 2089 - Capstone

Music

MUS 1000 - Music Theory Fundamentals I

MUS 1001 - Music Theory Fundamentals II

MUS 1012 - Ear Training/Sight-singing I Lab

MUS 1020 - Music Appreciation: GT-AH1

MUS 1021 - Music History Medieval Thru Classical Period: GT-AH1

MUS 1022 - Music History Early Romantic Period to the Present: GT-AH1

MUS 1025 - History of Jazz: GT-AH1

MUS 1031 - Music Class I: (specify)

MUS 1032 - Music Class II: (specify)

MUS 1041 - Private Instruction (Specify)

MUS 1042 - Private Instruction (Specify)

MUS 1043 - Private Instruction (Specify)

MUS 1044 - Private Instruction (Specify)

MUS 1051 - Ensemble I

MUS 1052 - Ensemble II

MUS 1053 - Ensemble III

MUS 1054 - Ensemble IV

MUS 1075-1077 - Special Topics

MUS 2041 - Private Instruction (Specify)

MUS 2075 - Special Topics

Nail Technician

NAT 1008 - Introduction to Manicures, Pedicures, and Artificial Nails

NAT 1010 - Introduction to Nail Care

NAT 1011 - Intermediate I Nail Care

NAT 1058 - Intermediate Manicuring, Pedicures, and Artificial Nails

NAT 1059 - Intermediate Manicuring/Pedicures/Artificial Nails II

NAT 2008 - Advanced Manicuring/Pedicures/Artificial Nails

NAT 2010 - Advanced Nail Care

NAT 2011 - Application of Nail Enhancements

NAT 2075 - Special Topics

Natural Resources

NRE 1100 - Foundations of Forestry

NRE 1110 - Forestry Field Techniques

NRE 2028 - Forest Harvesting

Nursing

NUR 1001 - Pharmacology Calculations

NUR 1002 - Alterations in Adult Health I

NUR 1003 - Basic Health Assessment for the Practical Nurse

NUR 1004 - Alterations in Adult Health II

NUR 1005 - Practical Nursing Arts and Skills

NUR 1006 - Medical Surgical Nursing Concepts

NUR 1009 - Fundamentals of Nursing

NUR 1010 - Pharmacology for Practical Nursing

NUR 1011 - Advancement into Practical Nursing

NUR 1012 - Basic Concepts of Pharmacology

NUR 1013 - Basic Concepts of Maternal-Newborn Nursing

NUR 1014 - Basic Concepts of Pediatric Nursing

NUR 1015 - Basic Concepts of Mental Health Nursing

NUR 1016 - Basic Concepts of Geriatric Nursing

NUR 1050 - Maternal-Child Nursing

NUR 1068 - Introduction to Professional Nursing Practice for Paramedics

NUR 1069 - Transition into Practical Nursing

NUR 1070 - Clinical I

NUR 1071 - Clinical II

NUR 1072 - Clinical III

NUR 1073 - Clinical III

NUR 1075-1077 - Special Topics

NUR 2002 - Transition from LPN to Professional Nursing

NUR 2006 - Advanced Concepts of Medical-Surgical Nursing I

NUR 2011 - Psychiatric-Mental Health Nursing

NUR 2012 - Pharmacology II

NUR 2016 - Advanced Concepts of Medical Surgical Nursing II

NUR 2030 - Transition to Professional Nursing Practice

NUR 2054 - RN Licensing Exam Preparation

NUR 2075-2077 - Special Topics

NUR 3001 - Integration into Baccalaureate Nursing Practice

NUR 3002 - Trends in Nursing Practice

NUR 3003 - Nursing Research / Evidence Based Practice

NUR 3004 - Informatics / Healthcare Technology

NUR 3005 - Emergency Preparedness

NUR 3006 - Gerontology Nursing

NUR 3007 - Behavioral Health

NUR 4008 - Legal and Ethical Issues Related to Professional Nursing Practice

NUR 4009 - Leadership in the Nursing Profession

NUR 4010 - Community Health Nursing/Practicum

NUR 4011 - Senior Seminar

Nursing Assistant

NUA 1001 - Nurse Aide Health Care Skills

NUA 1070 - Nurse Aid Clinical Experience

NUA 1075 - Special Topics

Occupational Safety Technician

OSH 1130 - Hazardous Materials

OSH 1310 - 10-hr Construction Industry Standards

OSH 2110 - Safety Program Management

Occupational Therapy Assistant

OTA 1000 - Introduction to Occupational Therapy

OTA 1005 - Occupational Disruption and Activity Analysis

OTA 1006 - Basic Occupational Therapy Frames of Reference and Documentation

OTA 1021 - Assessing Movement Through Occupation

OTA 1022 - Origins of Occupation and Performance from the Neonate to Adulthood

OTA 1025 - Basic Occupational Therapy Application to Mental Health

OTA 1031 - Geriatric Concerns, Diseases and Treatment Techniques

OTA 1075 - Special Topics

OTA 1081 - Internship

OTA 1082 - Internship

OTA 1083 - Internship

OTA 2016 - OT Application to Neurological Impairments

OTA 2017 - Occupational Therapy Rehabilitation Techniques

OTA 2018 - Occupational Therapy Application to Adult Physical Disabilities

OTA 2021 - Pediatric Concerns, Diseases, Disabilities, and Treatment

OTA 2035 - Professional Management for the OTA

OTA 2075 - Special Topics

OTA 2078 - OTA Seminar

OTA 2080 - Internship

OTA 2081 - Internship

OTA 2085 - Independent Study

Outdoor Studies

OUT 1125 - Mountain Orientation

Paralegal

PAR 1115 - Introduction to Law

PAR 1116 - Torts

PAR 1117 - Family Law

PAR 1118 - Contracts

PAR 1125 - Property Law

PAR 2080 - Internship

PAR 2201 - Civil Litigation

PAR 2208 - Probate and Estates

PAR 2211 - Legal Research

PAR 2212 - Legal Writing

Petroleum Technology

PET 1700 - Oil and Gas Production I

PET 2700 - Oil and Gas Production II

Pharmacy Technician

PHT 1011 - Introduction to Pharmacy

PHT 1012 - Pharmacy Law and Ethics

PHT 1013 - Communication and Professionalism for Pharmacy Technicians

PHT 1014 - Computer Skills for Pharmacy Technicians

PHT 1015 - Pharmacology I

PHT 1016 - Pharmacology II

PHT 1035 - Pharmaceutical Calculations and Compounding Techniques

PHT 1040 - Institutional Pharmacy

PHT 1041 - Community Pharmacy

PHT 1070 - Clinical:

PHT 1071 - Clinical:

PHT 2050 - Sterile Compounding & Aseptic Technique

PHT 2075-2077 - Special Topics

Philosophy

PHI 1011 - Introduction to Philosophy: GT-AH3

PHI 1012 - Ethics: GT-AH3

PHI 1013 - Logic: GT-AH3

PHI 1014 - Comparative Religions: GT-AH3

PHI 1015 - World Religions-West: GT-AH3

PHI 2005 - Business Ethics: GT-AH3

PHI 2014 - Philosophy of Religion: GT-AH3

PHI 2018 - Environmental Ethics: GT-AH3

PHI 2020 - Philosophy of Death and Dying: GT-AH3

PHI 2075 - Special Topics

Physical Therapist Assistant

PTA 1010 - Basic Patient Care in Physical Therapy

PTA 1015 - Principles and Practices of Physical Therapy

PTA 1020 - Modalities in Physical Therapy

PTA 1024 - Rehab Principles of Medical I

PTA 1031 - Professional Communications I

PTA 1034 - Rehabilitation Principles of Medical Management II

PTA 1035 - Principles of Electrical Stimulation

PTA 1040 - Clinical Kinesiology

PTA 1041 - Professional Communications II

PTA 1075-1077 - Special Topics

PTA 2005 - Psychosocial Issues in Health Care

PTA 2030 - Orthopedic Assessment and Management

PTA 2040 - Neurologic Assessment and Management Techniques

PTA 2051 - Professional Communications III

PTA 2075 - Special Topics

PTA 2078 - PTA Seminar

PTA 2080 - Internship I

PTA 2081 - PTA Internship II

PTA 2082 - PTA Internship III

Physics

PHY 1075-1077 - Special Topics

PHY 1105 - Conceptual Physics with Lab: GT-SC1

PHY 1107 - Energy Science & Technology with Lab: GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

PHY 2075 - Special Topics

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

PHY 2113 - Physics III: Calculus Based Modern Physics

Political Science

PSC 1011 - American Government: GT-SS1

PSC 1025 - American State and Local Government: GT-SS1

PSC 1075 - Special Topics

PSC 2020 - Introduction to Political Science: GT-SS1

PSC 2075 - Special Topics

Printing Technology

PRT 1001 - Introduction to Printing Technology

PRT 1012 - Beginning Offset Press

PRT 1013 - Intermediate Offset Press

PRT 1014 - Paper Management and Estimating

Process Technology

PRO 1000 - Introduction to Process Technology

PRO 1100 - Safety, Health and Environment

Psychiatric Technician

PTE 1010 - Intro to Behavioral Health Care and Wellness

PTE 1011 - Essential Concepts of Care

PTE 1015 - Core Concepts for Advanced Psychiatric Technician

PTE 1017 - Theoretical Concepts of Psychiatric Care II

PTE 1018 - Psychiatric Management Principles

PTE 1020 - Application of Behavioral Health Care & Wellness

PTE 1070 - Clinical Concepts of Psychiatric Care I

PTE 1071 - Clinical Concepts of Psychiatric Care II

PTE 1072 - Psychiatric Management Clinical

PTE 2075 - Special Topics

Psychology

PSY 1001 - General Psychology I: GT-SS3

PSY 1002 - General Psychology II: GT-SS3

PSY 1005 - Psychology of Workplace Relationships

PSY 1010 - Career Development

PSY 1017 - Parenting

PSY 1075-1077 - Special Topics

PSY 2000 - Research Methodology

PSY 2080 - Internship

PSY 2105 - Psychology of Gender: GT-SS3

PSY 2107 - Human Sexuality: GT-SS3

PSY 2112 - Introduction to Addictive Behavior

PSY 2220 - Dynamics of Racism and Prejudice

PSY 2221 - Social Psychology: GT-SS3

PSY 2222 - Psychology of Death and Dying: GT-SS3

PSY 2331 - Positive Psychology: GT-SS3

PSY 2333 - Health Psychology: GT-SS3

PSY 2440 - Human Growth and Development: GT-SS3

PSY 2441 - Child Development: GT-SS3

PSY 2442 - Child and Adolescent Psychology

PSY 2443 - Adolescent and Adult Psychology

PSY 2444 - Educational Psychology

PSY 2551 - Child Abuse and Neglect

PSY 2552 - Abnormal Psychology: GT-SS3

PSY 2770 - Introduction to Forensic Psychology

PSY 2771 - Psychology of Personality: GT-SS3

PSY 2772 - Stress Reduction with Biofeedback

PSY 2773 - Organizational Psychology

PSY 2774 - Psychology of Leadership

Public Service

PSV 2030 - Introduction to Civic Leadership

Radio and Television

RTV 1000 - Introduction to Electronic Media

RTV 1002 - Beginning Television

RTV 1003 - Writing for TV and Radio

RTV 1005 - Basic Video Production

RTV 1006 - Principles of Audio

RTV 1075 - Special Topics

RTV 1082 - Internship Radio STA/Audio Production

RTV 1083 - Internship Tv Studio/Video Production Co.

RTV 2002 - Advanced Television Production

RTV 2010 - Video Field Production

RTV 2075 - Special Topics

RTV 2202 - Advanced Television Studio Production

Radiologic Technology

RTE 1001 - Introduction to Radiography

RTE 1011 - Radiographic Patient Care

RTE 1021 - Radiologic Procedures I

RTE 1022 - Radiologic Procedures II

RTE 1031 - Radiographic Pathology/Imaging Evaluation

RTE 1032 - Radiographic Pathology and Image Evaluation II

RTE 1041 - Radiographic Equipment and Imaging I

RTE 1042 - Radiographic Equipment and Imaging II

RTE 1081 - Internship: Radiographic I

RTE 1082 - Internship: Radiographic II

RTE 1083 - Internship: Radiographic III

RTE 2021 - Advanced Medical Imaging

RTE 2031 - Radiation Biology/Protection

RTE 2055 - Multiplanar Sectional Imaging

RTE 2056 - Bone Densitometry

RTE 2075 - Special Topics

RTE 2081 - Radiographic Clinical Internship IV

RTE 2082 - Radiographic Clinical Internship V

RTE 2084 - Internship

RTE 2086 - Advanced Clinical Speciality II

RTE 2089 - Capstone

RTE 2091 - Professional Development

RTE 3011 - Sectional Anatomy for Medical Imaging

RTE 3012 - IV Certification for Contrast Medium

RTE 3021 - Theory and Application of MR Imaging I

RTE 3031 - MRI Protocols and Procedures

RTE 3041 - Theory and Application of CT Imaging

RTE 3051 - CT Protocols and Procedures

RTE 3081 - Internship: MRI I

RTE 3082 - Internship: CT I

RTE 4021 - Theory and Application of MR Imaging II

RTE 4031 - Advanced MRI Protocols and Procedures

RTE 4051 - Advanced CT Protocols and Procedures

RTE 4061 - Leadership in Medical Imaging

RTE 4062 - Teaching Methodologies in Medical Imaging Education

RTE 4081 - Internship: MRI II

RTE 4082 - Internship: CT II

Range Management

RAM 2005 - Range Management

Real Estate

REE 1075 - Special Topics

REE 2001 - Real Estate Brokers I

REE 2002 - Real Estate Brokers II

REE 2075 - Special Topics

Respiratory Care

RCA 1005 - Introduction to Respiratory Care

RCA 1010 - Pharmacology of Respiratory Therapy

RCA 1032 - Basic Techniques in Respiratory Care II

RCA 1041 - Basic Techniques in Respiratory Care

RCA 1051 - Cardiopulmonary Anatomy and Physiology

RCA 1053 - Cardiopulmonary Disease and Pathology

RCA 1056 - Application of Science in Respiratory Care

RCA 1065 - Pharmacology of Cardiopulmonary Care

RCA 1066 - Monitoring and Diagnostics of the Cardiopulmonary Patient

RCA 2030 - Critical Care I

RCA 2035 - Mechanical Ventilation I

RCA 2036 - Mechanical Ventilation II

RCA 2046 - Neonatal and Pediatric Respiratory Care

RCA 2065 - Professional Development

RCA 2066 - Advanced Monitoring and Diagnostics of the Cardiopulmonary Patient II

RCA 2070 - Clinical I

RCA 2071 - Clinical II

RCA 2072 - Clinical III

RCA 2075 - Special Topics

RCA 2080 - Internship I

RCA 2081 - Internship II

RCA 2083 - Internship III

RCA 4000 - Current Topics in Pulmonary Disease

RCA 4001 - Sleep Medicine

RCA 4002 - Advanced Concepts in Respiratory Therapy

RCA 4078 - Senior Seminar

Science

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

SCI 1075-1077 - Special Topics

SCI 1105 - Science in Society: GT-SC2

Small Business Management

SBM 1001 - Starting a Small Business

SBM 1021 - Small Business Planning I

SBM 1022 - Small Business Planning II

SBM 1031 - Records and Computerization I

SBM 1032 - Records and Computerization II

SBM 1041 - Financial Analysis and Planning I

SBM 1042 - Financial Analysis and Planning II

SBM 1051 - Marketing and Risk Management I

SBM 1052 - Marketing and Risk Management II

SBM 1053 - Marketing, Risk Management and E-Commerce I

SBM 1054 - Marketing, Risk Management and E-Commerce II

SBM 1075 - Special Topics

SBM 2075 - Special Topics

Social Work

SWK 1000 - Introduction to Social Work

SWK 1060 - Introduction to Alcohol and Drugs

SWK 1075 - Special Topics

SWK 2010 - Human Behavior in the Social Environment I

SWK 2020 - Human Behavior in the Social Environment II

SWK 2050 - Social Welfare in the U.S.

Sociology

SOC 1001 - Introduction to Sociology I: GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

SOC 1075-1077 - Special Topics

SOC 2003 - Urban Sociology

SOC 2005 - Sociology of Family Dynamics: GT-SS3

SOC 2007 - Environmental Sociology: GT-SS3

SOC 2015 - Contemporary Social Problems: GT-SS3

SOC 2016 - Sociology of Gender: GT-SS3

SOC 2018 - Sociology of Diversity: GT-SS3

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

SOC 2037 - Sociology of Death and Dying: GT-SS3

SOC 2065 - Violence and Culture

SOC 2075 - Special Topics

SOC 2080 - Internship

SOC 2089 - Capstone

Spanish

SPA 1001 - Conversational Spanish I

SPA 1002 - Conversational Spanish II

SPA 1009 - Spanish for Travellers

SPA 1011 - Spanish Language I

SPA 1012 - Spanish Language II

SPA 1014 - Fast-track Spanish I and II

SPA 1015 - Spanish for the Professional I

SPA 1075 - Special Topics

SPA 1078 - Seminar

SPA 2011 - Spanish Language III: GT-AH4

SPA 2012 - Spanish Language IV: GT-AH4

SPA 2075 - Special Topics

Sport Vehicle Technology

SVT 1001 - SVT Orientation and Safety

SVT 1002 - SVT Rolling Chassis

SVT 1003 - SVT Electrical Theory

SVT 1004 - 2 Stroke Engines

SVT 1005 - 4 Stroke Engines

SVT 1006 - SVT Electrical Repair

SVT 1007 - SVT Drive Systems

SVT 1009 - SVT Snow/ATV/PWC

SVT 1060 - Basic Motorcycle Repair I

SVT 1061 - Basic Motorcycle Repair II

SVT 2001 - Adv. Rolling Chassis

SVT 2002 - Adv. SVT Electrical Syst.

SVT 2003 - Adv. 2/4 Stroke Engines

SVT 2004 - Simulated Shop Operations

SVT 2080 - SVT Intership

Surgical Technology

STE 1002 - Introduction to Surgical Technology

STE 1003 - Introduction to Surgical Technology Lab

STE 1005 - Pharmacology of Surgical Technology

STE 1011 - Surgical Procedures and Case Management

STE 1033 - Surgical Instruments Lab I

STE 1034 - Surgical Instruments Lab II

STE 1051 - Surgical Procedures & Case Management Lab

STE 2069 - CST Exam Review Course

STE 2075 - Special Topics

STE 2081 - Surgical Technology Clinical Internship I

STE 2082 - Surgical Technology Clinical Internship II

STE 2083 - Surgical Technology Clinical Internship III

STE 2089 - Surgical Technology Capstone

Theater

THE 1005 - Theatre Appreciation: GT-AH1

THE 1011 - Acting I

THE 1012 - Acting II

THE 1016 - Technical Theatre

THE 1031 - Theatre Production I

THE 1032 - Theatre Production II

THE 1075 - Special Topics

THE 2011 - Development of Theatre Greek-Renaissance: GT-AH1

THE 2012 - Development of Theatre Restoration to Modern: GT-AH1

THE 2015 - Playwriting: GT-AH1

THE 2020 - Directing I

THE 2075 - Special Topics

THE 2083 - Internship

Unmanned Aircraft Systems

UAS 1040 - Unmanned Aircraft Systems Flight and Control

UAS 1050 - Unmanned Aircraft Systems and Safety: UAS Foundations

UAS 1051 - Unmanned Aircraft Systems and Safety: UAS Applications

UAS 1052 - Unmanned Aircraft Systems and Safety: UAS Personnel

UAS 1053 - Unmanned Aircraft Systems and Safety: Safety Management

Upholstery

UPH 1000 - Basic Upholstery Techniques

UPH 1001 - Auto Upholstery I

UPH 1002 - Auto Upholstery II

UPH 1003 - Auto Upholstery III

UPH 1004 - Furniture Upholstery I

UPH 1005 - Furniture Upholstery II

UPH 1006 - Furniture Upholstery III

UPH 2075 - Special Topics

Veterinary Technology

VET 1002 - Veterinary Medical Terminology

VET 1016 - Humane Treatment and Handling of Animals

VET 1020 - Office Procedures and Relations

Welding

WEL 1000 - Safety for Welders

WEL 1001 - Allied Cutting Processes

WEL 1002 - Oxy-fuel Joining Processes

WEL 1003 - Basic Shielded Metal Arc I

WEL 1004 - Basic Shielded Metal Arc II

WEL 1005 - Introduction to Nondestructive Testing Methods & Visual Inspection Workshop

WEL 1006 - Blueprint Reading for Welders and Fitters

WEL 1010 - Advanced Shielded Metal Arc I

WEL 1011 - Advanced Shielded Metal Arc II

WEL 1015 - Autobody Welding & Cutting

WEL 1024 - Gas Tungsten Arc Welding I

WEL 1025 - Introduction to Gas Metal Arc Welding

WEL 1041 - Introduction to Multi Process Welding

WEL 1042 - Basic Multi Process Welding

WEL 1043 - Intermediate Multi Process Welding

WEL 1044 - Advanced Multi Process Welding

WEL 1050 - AWS Qualification Testing

WEL 1075-1077 - Special Topics

WEL 2001 - Gas Metal Arc Welding I

WEL 2002 - Gas Metal Arc Welding II

WEL 2024 - Gas Tungsten Arc Welding II

WEL 2025 - Advanced Gas Metal Arc Welding

WEL 2030 - Pipe Welding I

WEL 2033 - 2G-Horizontal Pipe A.P.I.

WEL 2034 - 5G-Vertical Down A.P.I.

WEL 2035 - 6G-45 Down A.P.I.

WEL 2039 - 2G-Horizontal Pipe A.S.M.E.

WEL 2041 - 5G-Verticial Up A.S.M.E.

WEL 2042 - 6G-45 All Sizes Pipe

WEL 2043 - Testing All Sizes Pipe

WEL 2048 - Pipe Layout

WEL 2051 - Design, Layout and Fabrication

WEL 2063 - Applied Metal Properties

WEL 2075-2077 - Special Topics

Wind Turbine Technology

WTG 1000 - Introduction to Wind Industry

WTG 1075 - Special Topics

Women and Gender Studies

WST 2000 - Introduction to Women's Studies: GT-SS3

WST 2075 - Special Topics

Finance

FIN 3020 - Applied Finance

Other Courses

ACC 1002 - Fundamentals of Accounting Hands-on Lab

ACC 1015 - Payroll Accounting

ACC 1022 - Accounting Principles II

ACC 1035 - Spreadsheet Applications for Accounting

ACC 1038 - Payroll and Sales Tax

ACC 2035 - Computerized Accounting for Small Businesses

ART 1003 - 3-D Design

CSC 2025 - Computer Architecture/Assembly Language Programming

ECO 2045 - Environmental Economics: GT-SS1

EDU 2211 - Introduction to Education

FMT 1001 - Custodial Techniques

HPR 1020 - Phlebotomy

MGD 2067 - Game Design II

WEL 2050 - Layout and Fabrication

Catalog Home

Welcome to Pueblo Community College's Online Catalog

This online catalog provides current and prospective students with the most up-to-date information about academic programs and offers advisors and faculty members a number of tools to support their work with student and program planning.

To navigate through the catalog, please use the links on the right side of this page.

Visitors to this site can also take advantage of the "My Portfolio" management tool located at the bottom of the navigation menu to the right. With this function, students have the ability to identify departments, programs and courses they have interest in and store that information for later viewing.

Pueblo Community College's catalog contains general information about the college and its programs, courses, services, staff and policies. Information is subject to change between catalog updates. It is the student's responsibility to become familiar with all academic and administrative regulations and procedures that relate to his or her course of study.

About PCC

Welcome to Pueblo Community College

You've Made the Right Choice!

For 90 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 60 associate degree programs, more than 90 certificates, and seven (7) Bachelor of Applied Science degrees, and a Bachelor of Science Nursing degree. 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. Pueblo Community College has locations in southwest Colorado. The Pueblo Community College Southwest Campus is located on Highway 160 between Mancos and Cortez and the Pueblo Community College Southwest Site is located in Durango and serves Archuleta, Dolores, La Plata, Montezuma and San Juan counties.

The median age of our students is 27 years, of whom 16 percent are new first-time college students. In 2022, 67 percent of students were first generation, 69 percent were female, 38 percent were Hispanic, and 49 percent were minority. Approximately 60 percent of students receive some kind of financial assistance in the form of grants, scholarships, work-study jobs and/or student loans. 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 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 the Dental Hygiene Clinic, Cosmetology, Simulation Center and the Anatomy Lab, located on the Pueblo campus. Health services at the Southwest campus 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.

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. 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 $50 million to support PCC, its student scholars and its programs of academic excellence.

The PCC Foundation is honored to have the opportunity to work with alumni, businesses, individuals, and organizations in an effort to advance Pueblo Community College and the advancement of higher education in southern Colorado.

For more information on the PCC Foundation, please visit our Website or contact us via phone 719.544.0677 or email to Martha.simmons@pueblocc.edu.

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 decision makers 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 Assessment of Student Learning

Assessment of Student Learning is a comprehensive initiative to evaluate learning with respect to goals and outcomes that we value and desire for our students and graduates. PCC aims to strengthen its programs by offering students plentiful and varied opportunities to develop, reinforce, and master these competencies throughout their studies.

Successful and meaningful Assessment of Student Learning is collaborative and faculty-driven, requiring the participation of all who are interested in the quality of the educational experience we offer at Pueblo Community College, including students, faculty, administrators, and community partners.

Institutional Student Learning Outcomes (ISLOs)

PCC's shared college-wide goals for student learning are known as Institutional Student Learning Outcomes (ISLOs). All programs emphasize experiences that promote learning in the following six areas. Upon completing a course of study at PCC, students will be able to demonstrate mastery of these core skills:

1. **Critical Thinking & Problem Solving**: the ability to interpret and analyze information, explore implications, construct logical conclusions, and consider alternate perspectives and solutions.
2. **Effective Communication**: the ability to organize and express ideas clearly, purposefully, and compellingly, attending to the needs of the audience and following disciplinary conventions.
3. **Quantitative Reasoning**: the ability to perform computations, represent and interpret numerical information, and formulate reasonable solutions through quantitative analysis.
4. **Literacy**: the ability to recognize, locate, evaluate, and select suitable information and materials for the application of proper methods in order to accomplish tasks.
5. **Professionalism**: the ability to demonstrate accountability, personal growth, integrity, and professional behavior.
6. **Social Consciousness**: the ability to participate productively in a diverse global society through effective interpersonal skills, cultural awareness, civic responsibility, and equitable and inclusive practices.

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.

Higher Learning Commission Open Pathway

The Open Pathway is one of two options institutions have for maintaining their accreditation with HLC. It follows a 10-year cycle and, like the Standard Pathway, is focused on quality assurance and institutional improvement. The Open Pathway is unique in that its improvement component, the Quality Initiative, affords institutions the opportunity to pursue improvement projects that meet their current needs and aspirations.

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
- To care for your health and safety in everything we do

Colorado Student Bill of Rights (C.R.S. 23-1-125)

Student bill of rights. The general assembly hereby finds that students enrolled in public institutions of higher education shall have the following rights:

(a) Students should be able to complete their associate of arts and associate of science degree programs in no more than sixty credit hours or their baccalaureate programs in no more than one hundred twenty credit hours unless there are additional degree requirements recognized by the commission;

(b) A student can sign a two-year or four-year graduation agreement that formalizes a plan for that student to obtain a degree in two or four years, unless there are additional degree requirements recognized by the commission;

(c) Students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees;

(d) Students have a right to know which courses are 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 students' degree requirements;

(g) A student's credit for the completion of the core requirements and core courses shall not expire for ten years from the date of initial enrollment and shall be transferrable.

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 PCC Southwest Campus/Site.

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 2,432 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).

PCC Southwest Campus

The Southwest Campus located between Cortez and Mancos, Colorado, provides educational programs and services to the citizens of Dolores, La Plata, Montezuma, and San Juan counties in the southwest corner of Colorado. The campus has modern facilities, up-to-date technology and full-service enrollment and academic advising center (Go!Zone), as well as 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.

Pueblo Community College also has a location in Durango, CO. PCC's Durango Site is located in The Commons building at 701 Camino Del Rio. Please use the entrance on the back/west side of the building. Our main office is located in Suite 319.

We offer the following degrees and certifications:

- Associate of Arts
- Associate of Arts – Early Childhood Education and Psychology
- Associate of Science
- Associate of General Studies
- Associate of Applied Science – Automotive Service Technology, Early Childhood Education, Medical Assisting, Nursing, Radiology Technology and Welding
- Certificates – Agriculture, Automotive, Construction Technology, Drone Technology, Early Childhood Education (Director, Group Leader and Infant Toddler), Emergency Medical Services (EMT-B, AEMT, & Paramedic), Medical Assisting, Nurse Aide, Practical Nursing, Law Enforcement Academy, Wildland Fire, and Welding

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

Student Personal Mobile Computing

Pueblo Community College is a Bring Your Own Device (BYOD) institution. Students should bring their own mobile device for use during all educational activities on campus. Not only will you find using your own device to be more comfortable and familiar, you will also see that most of what you can do with your own device on campus can be done from anywhere with an internet connection. To review minimum device specifications, please see the Student Handbook.

WiFi Access - All currently enrolled students have access to Wi-Fi at all PCC Campuses. There are no restrictions on mobile device type or quantity of devices connected per student. We do request that you respect other students' educational use of the wireless network when accessing non-educational web content.

To access the wireless network at any PCC Campus, simply connect your device to PCCGuest, then open a web browser and click through the Acceptable Use Policy. If you have trouble accessing the wireless network, please contact or visit the IT Department (see contact information on this page).

Remote Desktop Access - VMware Horizon connects students to a desktop computer on the college's production network from their personal mobile device; giving students the ability to access most software applications used on campus computers.

Printing from Mobile Devices - PCC offers students two ways to print from personal mobile devices:

Papercut Web Printing - Papercut gives students the ability to print from their personal mobile device by uploading a file to a web page. This makes it fast and convenient to print documents; however there are some limitations on file type and advanced print options. You can visit the Cashier's office at your respective campus to add funds to your Papercut account when needed. For more details about student printing, please log into the PCC Portal and scroll down to "Web Printing from Mobile Devices (Papercut)".

Printing from VMware Horizon - To print file types not supported by Papercut, or to use advanced print features, please log on to a VMware Horizon Remote Desktop (see above for description).

* For more information about VMware Horizon or Papercut, please visit the PCC Help channel on your Student Portal.

Software Availability - PCC strives to make the programs students use during the course of their educational experience available on their personal mobile device at no cost whenever possible. Due to licensing and technical limitations, this is not always possible. Listed below are options students have for accessing software for free as well as purchasing software at a reduced cost.

Office 365 - PCC students have access to more than just an e-mail account with Office 365. Online versions of the popular Microsoft Office suite, as well as online storage via Microsoft OneDrive and a host of other productivity tools, are available at no cost. Also, PCC Students are allowed to install the current version of Microsoft Office locally on up to five devices and use the software as long as they are students at PCC. Check out the Office 365 channel on the Student tab of your MyPCC Portal for more information.

OnTheHub - As much as we like to make the software students need available for free on their personal devices, this just isn't possible in all cases. Another benefit of being a PCC student is the ability to purchase popular software titles by Microsoft, Adobe, Corel and more at a reduced cost. To see what's available, visit PCC OnTheHub and sign in with your S# and Windows Network Password. (Please note: the PCC OnTheHub website is hosted and managed by a 3rd party. All sales transactions are conducted between the student and Kivuto Solutions Inc. and all sales inquiries should be handled through OnTheHub Help.)

Getting Started at Pueblo Community College

Step 1: Apply for Admission

You may apply for admission one of two ways:

- Apply at the following site. Click Apply Online on the right side of the page.
- Visit the GoZone Enrollment Center or New Student Studio on your campus. Administrative personnel will help you apply.

Please refer to Applying for Admission for detailed information about your application.

Step 2: 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 Basic Skills Testing for more information.

Step 3: Apply for Financial Aid

To apply for financial aid, complete the Free Application for Federal Student Aid (FAFSA) online. 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 Financial Aid for more information.

Step 4: 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), 970.385.2020 (Southwest Site - Durango) or 970.564.6201 (Southwest Campus -Mancos) 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 5: Register for Classes

Register for classes online. Click on Login on the right side of the PCC web page. Sign in to the Portal and click the navigate link on the dashboard tab. The "Planner" tab will display the classes needed for your program of study. You can also go to the Student tab on the Portal, 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 6: Attend New Student Orientation

If you are a new or transfer student, it is highly recommended you complete the online orientation prior to the start of your first semester. Orientation will provide valuable information about PCC policies, as well as information regarding college success, study skills, time management and services available to you. Find New Student Orientation at pueblocc.edu/nso.

Step 7: Obtain a PCC Panther One Card (ID Card)

The Panther One ID Card is required at all campus locations – the Pueblo Campus, Southwest Campus, Durango Site, and Fremont Campus.

The card is required for identification at student-sponsored events and in various offices at PCC. All first-time students will be assessed a one-time ID card fee during the first semester they attend. The only time students will be charged additional fees is if the card is lost or needs to be replaced.

Students can obtain a Panther One Card after they have registered for classes by visiting the Welcome Center on the Pueblo Campus or the Go!Zones at the Fremont Campus and Southwest Campus. Photo identification must be presented to obtain an ID card.

Faculty and staff must obtain and display a PCC ID card once they have completed the new hire process through Human Resources.

Step 8: 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 in the Student Tools section fo the dashboard. If you have problems opening your email, please call 1.888.800.9198 for assistance. Please note that student email accounts are created AFTER students register in classes.

Step 9: Arrange to Pay Tuition and Fees

Visit the Cashier's Office or go online to the myPCC Portal and click Pay/View My 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 10: Register Your Vehicle to Receive a Parking Permit

PCC provides open parking on all campuses. Reserved or restricted parking will be identified with signage. Students, staff, and faculty are required to obtain and display a parking permit for their vehicles. Permits may be obtained at the Welcome Center on the Pueblo Campus or the Go!Zones at the Fremont Campus and Southwest Locations. Any person utilizing handicap parking must display a state-issued handicap parking placard or handicap license plate.

Parking citations may be issued for violation of the PCC Parking Rules and Regulations. The complete PCC Parking Rules and Regulations can be found at the following website. They may also be obtained at the Welcome Center at the Pueblo Campus and the Go!Zones at the Fremont and Southwest Campus and Durango Site.

Step 11: 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 the Pueblo campus. All students can purchase textbooks at the bookstore website.

Step 12: Complete PCC Safety Trainings (online) with Vector Solutions

Pueblo Community College is committed to providing a supportive learning environment that promotes your safety and healthy decision-making as it pertains to alcohol and other substance use and fostering safe, healthy relationships among our students. As part of this commitment, PCC complies with and upholds all federal, state, and local laws that regulate or prohibit the possession, use or distribution of alcohol or illegal drugs. Additionally, the college and members of our community will not tolerate offenses of dating violence, domestic violence, sexual assault, stalking, sexual violence, or any other type of sexual misconduct.

These courses and the college's partnership with Vector Solutions is intended to help you learn more about the impact of alcohol and other substances on your body, the resources that are available to you, the college policies on alcohol and other substances, and keeping our campuses safe. Also known as an institution of higher education, PCC has federal mandates to provide these trainings to our students each academic year. This course is about 45 minutes and is an investment in yourself, the college community, and beyond.

If you are looking for PCC policies, you can find them in the PCC Student Handbook located at this link https://pueblocc.edu/Student_Handbook. You can visit PCC's webpage on sexual misconduct and Title IX located at this link www.pueblocc.edu/Title-IX to access information on alcohol/drug referral programs and resources and learn more about procedures and/or student resources related to any type of sexual misconduct.

Look for the email which outlines this expectation, instructions on how to access the important safety trainings, and the deadline to complete these online courses.

Thank you in advance for doing your part to create and maintain a safe and supportive community.

Step 13: Be Sure to Attend Your First Day of Class!

Applying for Admission

- Admissions & Records
- Admission Policy
- Student Classification
- Change/Declaration of Degree or Major
- High School Students
- Re-admission to PCC
- Transfer Applicants
- International Student Applicants
- Limited-Entry Programs
- Residency Classification
- First-Year Experience Requirement

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, to include legal name changes
- 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. 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 Accuplacer basic skills test or be exempted from testing; 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 Level**
   Your class level is based on the number of college-level semester credit hours you have earned. PCC has two class levels:
   1. Freshman – fewer than 30 hours
   2. Sophomore – 30 or more hours
   3. For financial aid purposes, students in the Bachelor degree programs may be classified at the Junior level.
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 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 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. Changes of major will be processed in the term in in which they are received until full term census changes received after census will take effect the following term. Students may declare a program of study from which they have previously graduated if at least 25% of the classes in the program have changed since graduation, or an updated diploma and skill set is required for employment or State licensure requirements.

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 Concurrent Enrollment Department, call 719.549.3388, or email: EarlyCollege@pueblocc.edu 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
719-549-3085

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 Credits 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 Fall semester
- First Monday in November for Spring and Summer 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:
    - T*est of English as a Foreign Language (TOEFL):* A total minimum score on the Internet Based Test of (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 HSI Regulations, we will report your status to HSI.
- Only degrees are approved for international students, certificates are not approved.
- 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:

Limited Entry Programs	Limited Entry Programs
Automotive	Cosmetology
Dental Hygiene – AAS & BAS	Emergency Medical Services
Fire Science Academy	Law Enforcement Academy
Medical Assistant	Medical Sonography
Nursing	Nursing 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.

New Mexico Reciprocity (NMR) Program

Program allowing New Mexico residents to attend PCC at a reduced tuition rate. Students must complete the New Mexico Reciprocity Agreement and provide evidence of residency in New Mexico. While using this agreement, time spent in Colorado cannot be applied towards the 12 month physical presence requirement to become a Colorado resident.

Student must complete the New Mexico Reciprocity Application and provide evidence of their residency from New Mexico.

Approved applications for NMR will be active for one academic year; Summer, Fall, and Spring terms. A new application must be completed at the start of each academic year, Summer semester.

Western Undergraduate Exchange (WUE) Program

The Western Undergraduate Exchange (WUE) program is a 'guest pass' for students who are maintaining their residency in another state and do not intend to establish Colorado Residency. The WUE program is a program allowing students in 14 participating states to enroll in designated two-year institutions at a special, reduced tuition rate application only to WUE students. Residents of the following states are eligible for the program: Alaska, Arizona, California, Commonwealth of the Northern Marianas Islands, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming. While using this agreement, time spent in Colorado cannot be applied towards the 12 month physical presence requirement to become a Colorado resident.

Student must complete the Western Undergraduate Exchange Program and provide evidence of their residency from their participating state.

Approved applications for WUE will be active for one academic year; Summer, Fall, and Spring terms. A new application must be completed at the start of each academic year, Summer semester.

First-Year Experience Requirement

In accordance with the CDHE policy of enrolling students into credit-bearing, college-level courses and to support the college's goals of persistence, retention, and graduation, effective Fall 2018, all Associate of Arts, Associate of Science, Pre-Nursing Associate of General Studies, and Associate of General Studies degrees without designation offered at Pueblo Community College will include AAA 1009 as a first-year-experience requirement.

Note that:

- The AAA 1009 First Year Experience course requirement applies to AA, AS, AGS degrees without designation, and the Pre-Nursing AGS degree (but excludes all other Pre-Health AGS programs)
- For new incoming students, AAA 1009 is required within the first 15 credits (i.e.: in the first year)
- The AAA 1009 First Year Experience course is also strongly recommended for all incoming transfer students, returning students, and students pursuing other programs.

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.
- Forty-five (45) credits is the maximum number of transfer credits that can be applied toward an Associates degree and Ninety (90) credits is the maximum number of transfer credits that can be applied toward a Bachelors degree. A minimum of 25 percent of the credits applied to a degree or certificate must be earned at Pueblo Community College.
- 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 an Associates degree and 30 graded semester credits at PCC in your program area to receive a Bachelors 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.
- We cannot remove transfer credit once it has been posted to your records.

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. 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 719.549.3085.

Transferring Associate Degrees to Other Institutions

Colorado's Statewide Transfer Agreements (sometimes known as "Degrees with Designations" or "DwDs") guarantee that when you complete your AA or AS degree at PCC with at least 60 approved credit hours of course work with a C or better grade in every course, you can transfer to a baccalaureate liberal arts and sciences major (e.g., English, History, Math) at a Colorado public college or university and graduate after earning an additional 60 credits. 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.

PCC also has multiple transfer and articulation agreements with several Colorado four-year institutions. Save time by seeing your transfer advisor at your earliest opportunity for the latest 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 for one year after you leave PCC. If you are a current student, check your unofficial transcript prior to ordering official transcripts at the end of a term to ensure that your grades and/or degree have been posted.

PCC will not provide copies of your previous colleges' transcripts. If you need a copy of another college's transcript, please contact that college directly.

Financial Aid

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 719.549.3200.

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, 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.

*Y*ou are responsible for payment of 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. The Military Benefits tab in your MyPCC Portal is the preferred way to notify Admissions staff of enrollment status. Contact 719.549.3013 for questions.

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.

The school maintains a written record of the previous education and training of the veteran or eligible person and clearly indicates that appropriate credit has been given for previous education and training, with the training period shortened proportionately, and the veteran or eligible person and the Department of Veterans Affairs so notified.

VA students' records must be kept for 3 years following the ending date of the last period certified to VA. Referenced law: Title 38 CFR 21.4209(f))

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 the following COF website. 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 $116 per credit hour.

Projected tuition costs for the 2024-2025 academic year[1]:

Tuition	Tuition Only	Less Estimated COF Stipend	Student Share of Tuition
Resident	$285.10	$(116.00)	$169.10
Resident-CCC Online, PCC Online, Co Online	$393.80	$(116.00)	$277.80
Online Courses Active Duty Military	$366.00	$(116.00)	$250.00
Resident - Nursing Courses*	$370.40	$(116.00)	$254.40
Resident-Dental Hygiene**	$452.45	$(116.00)	$336.45
Resident Online Nursing Courses***	$473.05	$(116.00)	$357.05
Non Resident	$694.10		$694.10
Non Resident -CCC Online, PCC Online, Co Online	$423.60		$423.60
Non Resident Nursing	$710.00		$710.00
Non Resident- Dental Hygiene	$704.10		$704.10
Non Resident -Online Nursing Courses	$504.00		$504.00

* Includes nursing tutiion differential (AAS) $85.30/credit

**Includes dental hygiene tuition differential (AAS) $167.35/credit

***Includes online NUR tuition differential $79.25/credit

Bachelor Programs	Tuition Only	Less Estimated COF Stipend	Student Share of Tuition
Resident Dental Hygiene	$463.90	$(116.00)	$347.90
Resident Health Information Management Online	$393.80	$(116.00)	$277.80
Resident Nursing	$502.05	$(116.00)	$386.05
Resident Advanced Paramedic Practicioner	$393.80	$(116.00)	$277.80
Resident Radiologic Technology	$463.90	$(116.00)	$347.90
Resident Respiratory Therapy	$463.90	$(116.00)	$347.90
Resident Secure Software Development	$391.90	$(116.00)	$275.90
Non Resident Dental Hygiene	$451.60		$451.60
Non Resident Health Information Management Online	$423.60		$423.60
Non Resident Nursing	$489.75		$489.75
Non Resident Advanced Paramedic Practicioner	$423.60		$423.60
Non Resident Radiologic Technology	$451.60		$451.60
Non Resident Respiratory Therapy	$451.60		$451.60
Non Resident Secure Software Development	$673.85		$673.85

Fees not included - see Mandatory Student Fees

[1]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 thirty (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

Registration Fee: $17.15 per semester

Mandatory Student Fees

The following fees are assessed on a per-credit-hour basis up to a maximum of 12 credit hours per campus/site.

Campus/Site Fees:	Amount
Student Use Fee	$4.13
Technology Fee	$12.36
Facility Site Use Fee (Bayfield, Durango	$1.85
Parking (Pueblo, Fremont, Mancos)	$1.85

Charges at Pueblo Campus Only	Amount
Student Center Fee	$9.31
Fitness Center Fee	$1.41
Student Life Facility	$10.29
Health Clinic Fee (6 credits and up, flat charge)	$6.16

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	$10.00-$30.00
Health Professions, Malpractice	$9.48
Return Payment Charge	$25.00-$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, future registration will be withheld until your account is paid in full.

Billing

Statements can be obtained anytime through the myPCC Portal.

Methods of Payment

PCC accepts cash, check or credit card. (Visa, MasterCard, Discover and American Express) Bills may be paid at the Cashier Office, over the phone, online, or by mail.

Payment Plans are offered through the Cashier Office. Students must make a minimum down payment, sign a promissory note and pay the deferred payment fee. All payment plans are due before the end of the semester. Payment Plans

Third Party payments are also accepted. If you are working with a third party payer, please contact the Cashier Office to complete the required paperwork. Third Party Payments

Refunds

Tuition Refunds/Adjustments

To receive a tuition refund or adjustment, students must drop classes by the refund deadline listed in the Academic Calendar or on your class schedule/bill. 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 & Records Office.
- Login to your student account through the myPCC Portal to submit a drop request online.

Please Note: Not attending class does not constitute a drop and students will not automatically receive a refund. Students must officially drop their courses — at the Admissions Office (CC 224) or via online or telephone registration — no later than the Refund Period shown on the Academic Calendar or on the class schedule/bill given at registration.

Disbursements

When it comes to receiving financial aid refunds and other credit balances, you deserve choices! PCC delivers your refund with BankMobile Disbursements, a technology solution, powered by BMTX, Inc.. You will select your refund preference by logging into the myPCC Portal and selecting the BankMobile icon from the Student Tools portlet.

Learn more about BankMobile disbursements, a technology solution, powered by BMTX, Inc.

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.

Colorado's Remedial Education policy, which is based on *Title 23 - Postsecondary Education, State Universities and Colleges, Article 1 - Colorado Commission on Higher Education, § 23-1-113.3. Commission directive - basic skills courses*, requires the use of multiple measures in placing students into English and Math classes. Under this policy, the **primary evaluation** determines whether a student is college ready in English and mathematics and if the student will need remedial support or reassessment. Colorado accepts six assessment instruments for placement; institutions may choose to use any or all approved primary assessments, but must accept ACT or SAT. Accepted assessments include: ACT, SAT, Accuplacer, COMPASS, PARCC and Smarter Balanced. The **secondary evaluation** is institution-specific and incorporates the review of multiple measures to determine college readiness and course eligibility. The policy allows for institutional flexibility in determining the secondary evaluation. Under this policy, students' performance on standardized tests, high school achievement measures, advisor review and recommendation, and non-cognitive measures and essays are accepted as evidence of placement into college-level courses.

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 Site	701 Camino del Rio, Ste 319	970.385.2020
Southwest Mancos Campus	33057 Hwy. 160	970.564.6273

- 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.
- If you need special testing accommodations due to a disability, please contact the Accessibility Center at 719-549-3446 or Accessibility@Pueblocc.edu at least one week prior to your scheduled test date.

How to Prepare for the Accuplacer

Practice and Get Prepared for Test Day
The Official Web-Based Study App

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.

- "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.

ACCUPLACER STUDY GUIDES Website

Developmental Support Courses: Supplemental Academic Instruction (SAI)

PCC is committed to helping students with basic skills in reading, English and math. To ensure student success, the iGrad program provides students the ability to work on their basic skills by offering courses that are paired with 100-level courses.

PCC will provide written notice to all students whose Accuplacer scores do not meet the basic skills standards. This notice will include the state colleges offering basic skills courses, the course cost and the availability of the courses, including any online course. The official results of the tests are kept by the PCC Testing Center (Accuplacer, ACT, SAT and others) are valid for five years.

Please speak with an advisor if you have any questions about the basic skills 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

ENG 0090

Accuplacer - Sentence Skills <50 placement

ENG 0094 or ENG 1021

Accuplacer - Sentence Skills 70-94 placement

ENG 1021 - English Composition I: GT-CO1

- 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 1140, MAT 1120, MAT 1150 or MAT 1160)
    - 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 1240 or MAT 1260)
    - 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 0250 - Quantitative Literacy

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

MAT 0300 - Algebraic Literacy

- Accuplacer - Elementary Algebra 60-84 placement

MAT 1140 - Career Math or MAT 1120 - Math for Clinical Calculations or MAT 1150 - Technical Mathematics or MAT 1160 - Financial Mathematics

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

MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

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

MAT 1260 - Introduction to Statistics: GT-MA1

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

MAT 1340 - College Algebra: GT-MA1

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

MAT 1420 - College Trigonometry: GT-MA1

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

MAT 1400 - Survey of Calculus: GT-MA1

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

MAT 1220 - Integrated Math I: GT-MA1/ MAT 1230 - Integrated Math II: MA1

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

MAT 2410 - Calculus I: GT-MA1

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

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.

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 may appeal for reinstatement to a class from which they have been dropped as a "no-show." To be eligible for reinstatement, students must have attended class prior to the class census date, completed any required coursework and earned points prior to the class census date, and attended the class within seven days of applying for reinstatement.

Withdrawing from a class after the drop deadline but before the withdrawal deadline will result in a W grade, and the student will be charged the full amount of tuition and fees. Students who are forced to withdraw from a class due to circumstances beyond their control (death of a family member, extended illness, employer-mandated change in work hours, etc.) can appeal tuition charges by submitting a Tuition Credit Request. Students must complete the Tuition Credit Request and submit it to the Records Office with documentation supporting the issue that forced the student to withdraw. The Tuition Credit Appeals Committee meets monthly to review and approve or deny the appeal. If the credit request is granted, the student balance will NOT be written off, refunded to the student, or reversed but will be processed in the following order:

- Refunded to any 3rd party that paid the original tuition;
- Repay to any federal financial aid owed to the college as a result of the appeal;

- Credit the student account for any remaining balance due caused by the withdrawal.

For any remaining tuition credit, the student may receive a voucher for tuition (not fees) for a future term to be used within the following three terms, or later as deemed appropriate in the circumstances. If the student is unable to attend in any future term and use their voucher by the expiration date, the student forfeits the value of such voucher. Please contact the Records Office at 719.549.3018 for additional information.

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.

- You may withdraw from individual courses through the myPCC Portal. It is recommended you meet with your instructor prior to withdrawing.
- 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 the level of instruction. Lower-division courses are numbered in the 1000s and 2000s; courses numbered 3000-4000 are upper division courses that apply to PCC's bachelor programs. Students may not enroll in upper-division courses without Department Chair permission.

Academic Regulations

Academic Integrity and Academic Dishonesty/Academic Issues

Pueblo Community College is committed to providing a superior educational experience for all students who attend the College. Ensuring academic integrity and honesty in all educational classrooms and programs is critical to providing this high level of education.

The College places a strong expectation on all students to act honestly in all situations. The College does recognize that some students will choose to commit acts of academic dishonesty, which places an expectation on all faculty and staff to confront these acts of dishonesty. When a student is suspected of committing an act of academic dishonesty, the College will follow the process listed below. The process is intended to uphold and respect the student's due process rights.

What is "Academic Dishonesty"? "Academic Dishonesty is any action that results in students giving or receiving unauthorized assistance in an academic exercise or receiving credit for work that is not their own." Academic dishonesty is a behavioral issue and considered an act of misconduct subject to the College disciplinary process as defined in the Student Code of Conduct, which is found in this Handbook and subject to the academic sanction as defined in an instructor's course syllabus.

Students who violate Pueblo Community College (PCC) rules on academic integrity are subject to disciplinary penalties, including the possibility of failure or removal from a course, disciplinary probation and/or dismissal from the College.

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 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.	None
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 drop or withdraw themselves will receive the grade that they earned at the end of the class. 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.

- 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". 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. If students stop attending classes and do withdraw themselves, instructors should assign the students the grades they earned. If the grade is a failing grade, the instructor should report the last date of attendance.

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 dropping from any class.

If students stop attending their courses and do not drop 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.

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). A "P" grade indicates that the quality of student work in the course is equivalent to "C" or better." A "P" 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. Before a student registers into a class, they may select a pass/fail grading scheme, please contact the registrar's office to discuss this option. "P" 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 a P/F 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.

An "F" grade in the Pass/Fail mode indicates that the quality of student work in the course is equivalent to "Failure" in letter grade mode. An "F" 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
P in P/F mode (Pass)	0
F in P/F mode (Fail)	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 and an extension has been granted	

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. Your instructor will complete an Incomplete Grade Agreement listing the coursework necessary to finish the Incomplete and receive a grade in the class. You will receive a copy of the Incomplete Grade Agreement when the instructor submits it to the Records Office.
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.

Grade Changes

Once a final grade is entered, it cannot be changed unless the instructor who assigned the grade submits a Grade Change Form to the Records Office.

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.

Academic Standings:

Initial Standing – Student has completed fewer than 9 cumulative credit hours with a cumulative GPA greater than or equal to 2.00 for all classes completed.

Academic Alert – Student has completed fewer than 9 cumulative credits with a cumulative GPA less than 2.00 for all classes completed.

Good Standing – Student has completed at least 9 cumulative credit hours and has a cumulative GPA greater than or equal to 2.00 for all classes completed.

Performance Support – Student has completed at least 9 cumulative credit hours and has a cumulative GPA less than 2.00 for all classes completed. This value was previously referred to as "Academic Probation." By the conclusion of the Performance Support term, the student must raise their cumulative GPA to at least 2.00. If this condition is met, the student returns to Good Standing. Otherwise, the student will be Performance Improving or on Academic Suspension as outlined below.

Returning Support – Student is returning from Academic Suspension. By the conclusion of the Returning Support term, the student must raise their cumulative GPA to at least 2.00. If this condition is met, the student returns to Good Standing. Otherwise, the student will be Performance Improving or on Academic Suspension as outlined below.

Performance Improving – If a student on Performance Support or Returning Support earns a term GPA of at least 2.00 for all classes completed during the term but fails to raise their cumulative GPA to at least 2.00 for all classes completed, the student will be allowed to attend the next term as Performance Improving. This value was previously referred to as "Probation Continuing." As long as the student continues earning a term GPA of at least 2.00 during each term, they will be permitted to continue attending. The student will remain on Performance Improving until the cumulative GPA is at least 2.00, at which time they will return to Good Standing. If the student does not earn a term GPA of at least 2.00 while on Performance Improving, they will be placed on Academic Suspension.

Academic Suspension" – If a student on Performance Support, Returning Support or Performance Improving earns a term GPA of less than 2.00 for all classes completed during the term, the student will be suspended and will not be allowed to enroll at the College issuing the suspension for the next term unless an appeal is approved. The student may be dropped from all registered courses for an upcoming term at the College based on the College's procedures.

Academic Suspension

All academic suspensions are for one term only. If a student who has served a suspension wishes to return, the student will be allowed to re-enroll only after meeting with an academic advisor. The student will be placed on Returning Support for their return semester.

Students suspended from one College are not suspended from other Colleges within the System.

Note: Academic probation/suspension is different from financial aid warning/probation/ineligibility. Please see the Financial Aid section 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, which you can find online or in hard-copy form in the Office of the Chief Student Services Officer. For information about arbitrary and capricious actions, contact the Office of the Chief Student Services Officer.

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. The term in which the six credits/2.0 GPA is achieved may have occurred any time after the last term being considered for Academic Renewal and includes the term in which the student applies for 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.
- Academic renewals will be processed at the end of the term in which the student submitted the renewal.

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. 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

Colorado Online Courses

The online courses offered at Pueblo Community College are part of the Colorado Online system. **PCC online home college sections** 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.

The **Colorado online pooled sections** are taught and developed by instructors from the Colorado Community College System (CCCS). With Colorado Online, you'll have access to more academic options while benefiting from the support and resources you already receive as a PCC student.

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.

Online Tuition and Related Costs

Tuition rates for online courses are different from those of traditional courses. Look up the tuition costs on the Tuition & Fees page. Some courses have lab and special course costs. View the Tuition & Fees page and click on the **Online Courses Fees tab** to see the list of online courses and their associated fees.

Other Methods of Instruction

At PCC, we offer a variety of other course delivery methods to meet the diverse needs of our students. Whether you prefer the convenience of remote learning or the interaction of in-person classes, PCC has a delivery method that suits your preferences and goals.

Remote Real-Time

> Classes will be taught in real-time, with 100% remote delivery via technology at pre-determined times. Classes do not meet in a physical classroom.

Hyflex

> Hyflex courses are highly flexible and can be delivered entirely remotely in real-time, entirely in person in real-time, or a combination of the two.

Hyflex with Lab

Hyflex courses with lab are highly flexible and can be delivered entirely remotely in real-time, entirely in person in real-time, or a combination of the two. However, labs will require in-person attendance.

Multi-Campus Virtual Instruction

Virtual courses are delivered in real-time through technology between PCC campuses. Both instructors and students attend the course on-campus and in-person.

Graduation Requirements

General Graduation Requirements

Bachelor Degree Requirements

All candidates for Bachelor degrees must meet the following requirements:

- Complete a minimum of 120 semester hours of credit
- Complete all program requirements for the Bachelor degree
- Satisfactorily complete at least 25 percent of the Bachelor degree requirements 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

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 at least 25 percent of the Associate degree requirements 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

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

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 a Bachelor Degree, or 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 Pass/Fail 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 by the deadline date of the semester you plan to graduate. Dates are posted on the Graduation Planning Sheet form.

- Verify that your program of study is listed correctly on your Degree Check. 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 have been approved.

- Review your DegreeCheck audit - if all your classes show as 'Complete' (green checkmark) or 'Complete Except for Classes in Progress' (blue half moon), YOU'RE READY!!
- Complete a Graduation Planning Sheet

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. When you finish completing the classes required for your declared program of study, your degree/certificate will be awarded and the program from which you graduated will be closed in your student records. If you intend to continue to take classes at PCC after graduating, it is your responsibility to ensure that your new program of study is correctly listed in your student records.

You may complete your graduation requirements any time during a term; however, if you plan to attend the commencement ceremony, your graduation planning sheet needs to be completed by March 1. 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. Should enrollment be interrupted, students will be subject to the requirements of the catalog of record at the time of reentry to PCC.

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
- are a graduation candidate for the spring semester
- graduated the preceding fall semester
- will be graduating at the end of the following summer session

PCC surveys graduates annually to ask for feedback about their experiences. We take the input very seriously, and our graduates' opinions are important to us. Not only can they help us to improve and refine our programs and services, they can also benefit current and future students. Topics include questions including but not limited to program of study, courses, current or future career plans, and ability to transfer successfully. The results are used to improve the academic programs and services that we offer for the next class of PCC graduates.

Services for Students

Services for students are available at PCC's Fremont, PCC Southwest, Durango, 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).

Accessibility Center

If you have a documented disability (including temporary disabilities such as a broken arm), you may qualify for accommodations. These accommodations include, but are not limited to, allowance to audio record lectures, alternative text formats, and sign language interpreting services. These services are available to qualifying students at all campuses.

Accessibility Center also offers courses in assistive technology. The CIS 1004 is a small, self-paced course that teaches you how to use assistive technology such as voice recognition programs, screen readers and other adaptive devices. You can also access the assistive technology classroom during open lab hours. (Note: Lab hours may vary from semester-to-semester.)

To inquire about accommodations or Assistive Technology courses, please contact them at 719-549-3446 or Accessibility@Pueblocc.edu

Bookstore

The PCC Bookstore serves PCC students, faculty, staff and the community. We sell all required textbooks and supplies, as well as general, 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. In order to serve our students, we offer both new and used textbook rentals as well as new and used textbooks for purchase. The Pueblo campus has a physical store open year-round. Students from the Fremont and Southwest campuses are invited to purchase from our website with direct shipping to their homes. Students from all campuses can purchase all Textbooks, supplies and PCC imprinted items online.

Campus Dining

There are two (2) campus dining options. Rosario's at Pueblo Joe's is located in the lower level of the Student Center. Rosario's offers a daily lunch special, deli sandwiches, heat and eat meals, and grab and go snacks and beverages. Rosario's is open Monday – Friday from 10:00 a.m. - 2:00 p.m. with the meal of the day served from 11:00 a.m. - 1:00 p.m.

Einstein Bros. Bagels located in the Student Center with an exterior entrance off Harrison Street. Einstein Bros. is open Monday – Friday from 7:00 a.m. - 2:00 p.m. and offers a variety of freshly made bagels, pastries, sandwiches, salads, coffee, and beverages.

Catering options for campus events is also available. For more information please contact the PEAK office at 719.549.3066 or 719.549.3074.

Career Services

Office of Career & Community Connection

Career Services are offered to students and alumni through the Office of Career and Community Connection. This is located in the Mike Davis Academic Building Room AB043 in the Learning Center which includes:

- Career Readiness (Resume building, Cover Letters, Interviewing preparation)

- Job posting on Handshake (Career Connection) and Industry job fairs/events
- Employer networking and Information sessions (series)
- Workshops (Resume and Cover Letter seminars)
- Career Exploration and Super Strong Assessment (Vita Navis)
- Job searching and application to open positions
- Internship searching and application
- Employer relations/networking (building partnerships and connecting departmental programs)

Contact for more information: 719.549.3033 or Jimmie.Romero@pueblocc.edu

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 located at St. Mary Corwin, 1000 Minnequa Ave., MC-330, call 1.877.338.2273 or check https://www.childrenfirstco.org or 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 City Center Dr. 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.

Enrollment Events & Campus Tours

Prospective students and family tours. During your visit, you will learn about PCC's academic programs, enrollment process, and student life. After the presentation you will receive a guided tour of the campus from of of PCC's Student Ambassadors. To schedule tours please visit or https://pueblocc.edu/tours or call 719.549.3093. On the Fremont Campus, tours can be arranged by calling 719.296.6105.

Health Clinic

PCC has partnered with the Pueblo Community Health Center to provide Healthcare services on site for students, staff, family members, and community members. Services include, but are not limited to; sick/acute healthcare, physical/well exams, immunizations, minor injury treatment, health education, contraceptive counseling, medication management, referrals to specialists, tobacco cessation, and behavioral health referrals for: individual therapy, crisis services, coping skills, treatment for anxiety, depression, and substance abuse.

The PCC Health Clinic does bill health insurances and also accepts Medicaid, Medicare, CICP and most private insurances. If you do not have health insurance coverage, please call 719.549.3315 for information on how to apply for PCHC's sliding fee assistance and/or Medicaid benefits. Visit the PCC Health Clinic webpage for more information on services and support resources. Please call 719.549.3315 to schedule appointment.

Learning Center (042)

The Pueblo, Fremont, Southwest campus 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:

Student Computer Access

The Pueblo campus has 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. We also have computer stations available for students to access the internet, MyCourses, etc. for quick print options.

The Mancos campus has laptops which may be checked out with a student ID, and desktops which may be used by students. On-site assistance for basic computer and learning platform questions is available on the Mancos campus

Tutoring

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. Pro tutors are available to assist PCC Fremont and Southwest students over Webex. Appointments can be made by calling the Learning Center, or using Navigate.

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

Onsite tutoring options are also available for the Southwest locations of PCC, by appointment only.

Limited online tutoring through NetTutor is also available through the MyCourses. NetTutor is free to all PCC students at all campuses.

Library

PCC's Pueblo and Fremont campuses have academic libraries providing a wide variety of materials and services to students, faculty, staff and community members. The library collections include both print and eBooks, as well as robust databases selected to meet the academic needs across all disciplines and degree paths at PCC.

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 webpage. The Pueblo Community College Library provides the following:

- Online Resources: Over fifty online resources are available to PCC students, faculty and staff, including academic databases, eBooks, streaming media, resource guides, and citation tools. Access to online resources is permitted with the use of a college-assigned S number.
- Research Assistance: Librarians are available for help developing research strategies and identifying resources for class assignments or personal interests. Individual and group orientations are available to students and instructors. Appointments with a reference librarian can be scheduled via the "Book a Librarian" option on the PCC Library webpage or through Navigate Appointments on the student portal. Walk-in and telephone requests are also accepted.
- Course Reserves: All PCC campuses and sites maintain a Course Reserves collection that is for use by students at their respective location. These collections include some course text books, supplemental print materials, and other academic aids.
- Interlibrary Loan: The PCC Library is a Prospector member and is on the statewide courier system, allowing patrons to borrow books, articles, and other materials from other Colorado libraries. Requests can be made via the Interlibrary Loan form on the PCC Library webpage, or by calling 719-549-3305.
- Public Library Satellite: The PCC Library is a satellite branch of the Pueblo City County Library District (PCCLD) and as such can be used as a drop off and holds pickup location by staff, students, and community members. Students and staff at all PCC campuses and sites can obtain a PCCLD library card via the PCC Library webpage, or by calling 719.549.3305.

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, myPCC portal, and social media. To keep PCC students and the college informed, Marketing and Communications publishes timely news via email, social media, PCC's website, campus monitors and displays, 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. These activities include conducting campus tours and visiting schools and organizations to deliver presentations. Recruitment also assists prospective students through the enrollment process. 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 stop by the New Student Studio, located in the Student Center, Room 251, or call 719.549.3116. To schedule tours please visit or https://pueblocc.edu/tours or call 719.549.3093. On the Fremont Campus, tours can be arranged by calling 719.296.6105. or schedule a tour. On the Fremont Campus, tours can be arranged by calling 719.296.6105.

OPTICA First Year Experience

The OPTICA First Year Coordinators are located in the Go!Zone in the Student Center on the Pueblo campus. The goal of OPTICA is to provide services to first year students to assist with the onboarding process that will ensure a smooth transition into college:

New Student Orientation: New Student Orientation is now completely online. Incoming students will learn about academic programs, support services, campus resources, and student life to successfully transition into the first year of college.

Technology Training: First Year Coordinators meet with new students after they are enrolled for their first term. The goal of this service is to provide students with information on the various PCC technology and accounts that will be used throughout college such as the myPCC Portal, Navigate, MyCourses, student email, and more.

Emotional Intelligence Coaching: First Year Coordinators are certified emotional intelligence coaches. New students can meet with First Year Coordinators to learn more about how their emotional intelligence skills relate to college. This service is helpful to guide students on how to make healthy decisions, problem solve, and cope with stress to maintain their academic and career goals.

Financial Literacy & Career Development: First Year Coordinators provide services to students to increase knowledge of financial literacy that will help reduce and/or eliminate the amount of loan debt that students graduate with. Coordinators also provide career development activities to help students identify pathways to desired careers.

PCC Student Handbook and Code of Student Behavioral Expectations and Responsibilities

The PCC Student Handbook serves as a guide for student-related topics that includes students' rights, responsibilities, and resources. Pueblo Community College is dedicated to working with its students to attain their academic goals in a safe and supportive college environment. The Pueblo Community College Student Handbook is an official PCC publication. All students are expected to know their rights and responsibilities and to work in collaboration for a positive learning environment. PCC encourages you to get involved on campus and contribute your talents, and to help ensure a diverse and dynamic environment. You, our PCC students, are important to us, and your faculty and staff are here to help ensure your success. Use your resources. Ask questions. Get involved. You will succeed!

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

PCC Southwest Site/City of Bayfield – Bayfield Marshal's Office, 1199 Bayfield Pkwy, Bayfield, CO 81122, at 970.884.9636

PCC Southwest Site/City of Durango – Durango Police Department, 990 E. Second Ave., Durango, CO 81301, at 970.385.2900 or 911

PCC Southwest 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 Pueblo Community College 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 by Clery "as someone who has significant responsibility for students and campus activities." As outlined in the PCC Student Handbook, the College encourages and expects students, faculty, and staff to engage as active bystanders and report to College officials' incidents that involve infractions and/or concerning behavior outlined in the PCC Student Handbook. The following are a few examples of CSAs:

Club Sponsors

PCC Police Department

Accessibility Center

Student Life Staff

Vice President of Student Success

Department Chairs

Success Coaches

Title IX Coordinators

Exemption from Reporting

Licensed professional mental health counselors and pastoral counselors (employed by religious organizations to provide confidential counseling) who are working within the scope of their license or religious assignment at the time they receive the crime report are exempt from reporting under the Clery Act. Individuals seeking confidential discussions of concerns may explore and utilize local professionals referenced above who are working within the scope of their license or religious assignment. Please refer to the Student Resource Guide Related to Sexual Misconduct, policies, procedures, and victim services located on the PCC Title IX & Sexual Misconduct webpage.

Anonymous & Confidential Crime Reporting

Victims and witnesses of a crime who wish 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 at 719.549.7867
- Fremont Campus - Fremont County Crime Stoppers at 719.275.7867
- PCC Southwest Sites and PCC Southwest Campus - Durango-La Plata Crime Stoppers at 970.247.1112
- Safe2Tell: 1.877.542.SAFE (7233)
- PCC website to report a concern or incident at this link and choose to exclude their contact information from the report.

Referral Services and Student Support Resources

At PCC, we encourage you to utilize all of the support resources to help ensure your success. Whether you need to explore mental health and wellness support resources, navigating a crisis, meet with an academic advisor, learn more about student life on your campus, connect with a tutor, etc. You can explore a variety of referral services and student support resources at these PCC webpages Student Support Services, Referral Services, Victim Assistance and Drug/Alcohol Referral Programs and Resources, PCC Health Clinic webpage, and PCC Campus Police. You've got this – and we've got your back because we are Panthers caring for Panthers!

Drug & Alcohol Abuse Prevention Program

Pueblo Community College is committed to the health and well-being of its students and employees. As part of this commitment, PCC complies with and upholds all federal, state, and local laws that regulate or prohibit the possession, use or distribution of alcohol or illegal drugs. Violations of such laws that come to the attention of College officials will be addressed within the College or through prosecution in the courts, or both. Students violating this policy are subject to disciplinary suspension and/or expulsion from the College.

As a recipient of federal grants and contracts, PCC adheres to the provisions of the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendment of 1989. Also, as a member of the Community Colleges of Colorado, PCC adheres to the State Board for Community Colleges and Occupational Education BP 3-24, Drug-Free Workplace Policy.

Accordingly, all PCC full-time and part-time students and employees are hereby notified of the standards of conduct that PCC will apply to all activities conducted on College-owned or College-controlled property and to all other College-sponsored activities.

Information on PCC's Drug & Alcohol Abuse Prevention Program can be found at https://pueblocc.edu/Drug-Alcohol-Policies; PCC policies and expectations for student behavior can be found in the PCC Student Handbook. Additionally, you can explore a variety of referral services and student support resources at these PCC webpages Student Support Services, Referral Services, Victim Assistance and Drug/Alcohol Referral Programs and Resources, PCC Health Clinic webpage, and PCC Campus Police

STEM Center/STEM EDGE Services

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, Adobe, and Choreographe. These applications can be used to design 3D projects for our many 3D printers and to program our humanoid NAO^{6} robots.

Seven 3D printers: The 3D printers in the STEM Center serve all of your design needs and include 5 Makerbot Sketches, 1 Makerbot Large, and 1 Makerbot MethodX. These printers can be utilized by students to complete class projects as well as personal projects for $3.00 an hour.

Raspberry Pi's: All computers can be used to program Raspberry Pi's. The Raspberry Pi's are used in the Engineering Methodologies course, but can be used by any student, faculty, or community member.

NAO^6 Robots: The STEM Center has 5 NAO^6 robots available for students to play around with and program inside the Choreographe software. These humanoid robots are highly programmable and are highlighted in workshops and outreach events.

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 workshops, transfer events, and the STEM Night speaking series. The workshops teach students about pertinent skills or topics like soldering, 3D modeling, recreational drone certification, and research skills. Transfer events are designed to help students during their transfer process to any 4-year university. The STEM Night 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.

STEM EDGE, located in the STEM Center provides STEM program advising for Engineering, Math, Computer Information Systems, Geology, Biology, Chemistry, CIS Network Security, IT Systems Administration, Secure Software Development, and Software Development Security.

STEM at PCC Southwest Campus

The STEM program at PCC Southwest is housed in the STEM Center located on the Mancos Campus. The STEM program has three components which are designed to support students in the Southwest region who are interested in STEM career pathways: the STEM Center, support from the STEM Academic and Career Expert (STEM ACE), and an outreach program to bring STEM activities to regional K-12 schools.

STEM Center Southwest: The STEM Center is located between the Law Enforcement Academy building and the Welding building on the West side of the Mancos campus. The STEM Center provides students with equipment and workspace, study resources, and workshops to support all students' path to success at PCC Southwest. The STEM Center is also used as a classroom for the Engineering courses offered at PCC Southwest.

- Equipment. The STEM Center houses 3D printers, computers/laptops, microscopes, electronics, robotics kits, soldering materials, Arduino Uno and Raspberry Pi microcontrollers and related components, and the tools needed to help students complete projects. All of these materials are available for students to utilize in the STEM Center workspace which includes work tables and plenty of project space.
- Study resources. Study resources are available to all PCC Southwest students at the STEM Center. Reference books, copies of course textbooks, and computer resources are available for students who want to use the STEM Center as a study resource. The STEM Center can be used to complete labs from online classes or complete lab assignments from in person labs, as appropriate. The STEM Center holds drop in study times for students. One is the Learners' Studio which is a quiet study time for students catching up on coursework

and/or completing assignments. The second is the STEM Cafe which is a more active study time where students can work on team projects and also get help from the STEM ACE, peer mentors and tutors.

- Workshops. Workshops on topics ranging from study skills, to career exploration, to professional skills are offered in the STEM Center. Presentations led by STEM professionals and STEM activities and events are also part of the STEM Center workshops. The STEM Center is also the location for the Colorado Space Grant Consortium Robotics Challenge workshops for students participating in that challenge.

STEM Academic and Career Advising/Coaching: The STEM Academic and Career Expert (STEM ACE) is an expert in STEM pathways and can help students with creating educational plans, clarifying goals, exploring the world of STEM careers through individual coaching and workshops, finding needed resources (e.g., scholarships), and connecting students with STEM professionals, instructors, peers and mentors for work experiences (e.g., internships), undergraduate research opportunities, and academic support.

STEM Outreach: The STEM Outreach Coordinator works with regional K-12 schools and community groups to bring STEM activities into the schools. The STEM Outreach Coordinator can provide in-classroom activities, sponsor STEM clubs and special STEM events, and introduce students to the skills needed to be successful in STEM. Focusing on middle school and early high school students, the STEM Outreach Coordinator helps develop student interest in STEM and helps guide students towards the classes they should take in high school, including concurrent enrollment, in order to be successful in their STEM academic career.

Testing Center

The Testing Center offers a distraction free environment for academic, placement, typing, high stakes, and professional exams. On the Pueblo campus, our services include professional exams through PearsonVUE, Kryterion, Castle, IQT, ISO, MSSC, Prometric, Comira, Prior Learning Assessments and Credit by exam such as CLEP and DSST. The Testing Center at PCC is here to serve our students as well as the larger Southern Colorado Community. All services provided in the Testing Center require a valid state issued photo ID.

The PCC Southwest testing center, located at the Mancos campus, offers Accuplacer, TEAS, Prior Learning Assessment, and academic testing for courses taken remotely. Community members who are not enrolled at PCC are welcome to inquire about testing services.

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 Services Division is located on the upper level. 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 Pueblo Community College events and community events such as conferences and symposiums, professional development and continuing education, testing services, training certifications and meetings. For more information, call 719.549.3066 or visit the Student Center, Room 234.

TRIO Student Support Services (TRIO SSS)

TRIO Student Support Services (SSS) is a federally funded grant program designed to enhance the academic development and success of students. The primary objectives of TRIO SSS are to improve college retention and graduation rates and to support students' transitions between different stages of higher education. The program offers holistic support and a range of free services, including:

1. **Academic Support**: Offering personalized and group tutoring sessions in various subjects to support academic achievement.

2. **Academic Coaching**: Guiding students through their academic journey, including course selection and understanding degree requirements.
3. **Student Success Workshops**: Providing workshops to help students develop effective learning strategies and study skills.
4. **Financial Empowerment**: Assisting students with managing their finances, understanding financial aid, and securing scholarships or grants.
5. **Career Exploration and Guidance**: Providing information and advice on career options, helping students align their academic pursuits with their career goals.
6. **Leadership Development**: The program offers various opportunities and activities to help students develop their leadership potential.
7. **Academic, Cultural, and Community Events**: Events are designed to enrich students' educational journeys, broaden their perspectives, and foster a sense of belonging.
8. **Advocacy and Personal Support**: Supporting students with personal issues that may affect their academic performance and overall well-being.
9. **Transfer Assistance and Financial Aid**: Helping students navigate the process of transferring to four-year institutions, including application assistance and financial aid application guidance.

The comprehensive support offered by TRIO SSS is aimed at fostering an environment where students can thrive academically, personally, and professionally, thereby increasing their chances of completing their postsecondary education successfully.

TRIO Upward Bound | Upward Bound Math and Science

TRIO Upward Bound and Upward Bound Math and Science are federally funded programs designed to provide support to eligible high school students in their preparation for college entrance. The program provides opportunities for participants to succeed in their precollege performance and ultimately in their higher education pursuits. The goal of Upward Bound is to increase the rate at which participants complete secondary education and enroll in and graduate from institutions of postsecondary education.

Veterans Upward Bound (VUB)

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 154 in the Davis Academic Building.

Webcast

Class will be delivered in a classroom at a campus, site, or high school. The class will be taught from a different location, and the faculty will appear locally by use of technology (WebEx, Zoom, Hologram, etc.)

Wellness and Recreation Center

The Pueblo campus Wellness and Recreation Center is located in the Student Center, Room 159. The Wellness and Recreation Center provides a facility to pursue your personal wellness goals. We strive to enhance healthy lifestyles and well-being on the PCC campus in a safe and welcoming environment. There are more than 60 pieces of cardiovascular and weight training equipment to start or continue your wellness goals.

All PCC students enrolled in on-campus (Pueblo) classes pay a Wellness and Recreation fee with their tuition and have access to the Wellness and Recreation Center at no additional cost. Students enrolled in online classes only, or in classes at other PCC campuses (Fremont, Mancos, Durango) may purchase a $20 monthly membership. All incoming new students, registered in on-campus classes, will have Wellness and Recreation Center access at the start of the semester, when classes begin. Wellness and Recreation Center access is granted only for the semester in which the student is enrolled in classes and has paid the recreation center fees. Students enrolled in fall and are registered for spring classes, will have access to the Recreation Center during the winter break. Students not enrolled in summer classes, but enrolled in fall and/or spring classes, will have to pay the $20 monthly membership fee for the summer months.

Visit the PCC Wellness and Recreation Center webpage for more information on hours of operations, wellness resources, work-study opportunities, etc. Also feel free to call the Wellness and Recreation Center at 719.549.3363 for more information.

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.

The PEAK at Pueblo Community College offers multiple indoor and outdoor spaces for community events such as conferences and symposiums, professional development and continuing education, testing services, trainings, certifications, meetings and special events. Multiple venues and customizable diverse spaces include the Tony Fortino Ballroom, two (2) theaters, conference rooms, case rooms and classrooms. For more information, call 719.549.3066 or visit the Student Center, Room 234.

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 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 provides disconnected youth a pathway to self-sufficiency in their communities with a traditional high school diploma from their supporting high schools, while earning meaningful college credits. This program serves students ages 17-20 who have not experienced success in a traditional high school environment but have a desire to earn a diploma and more.

Nationally, about 15 percent of high school students do not graduate on time. There are many reasons for this and the impact of not receiving a high school diploma is profound. Gateway to College students are college students with college opportunities and they develop college expectations.

Gateway to College provides a supportive setting, college access, career development and holistic advisement. Students feel like they belong here.

The partnership between Gateway to College and our local school districts helps reduce dropout rates, increase re-engagement opportunities for students that have left the educational system, and recapture lost per-pupil funding for returning students – money that goes back into our communities.

Seventy-three percent of Gateway to College graduates continue in postsecondary education, according to Achieving the Dream/Gateway to College national data. The partnership between Gateway to College and PCC creates better-prepared college students who take advantage of an already-familiar educational environment to continue with their chosen studies.

GED Classes – The GED face to face preparation classes are designed to help individuals who have not have not completed the requirements of 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. The classes start by helping each student create a GED account. Next, students are given assistance and vouchers to take GED Ready tests (pre-tests) for each subject. Students are given their scores and detailed education plans with instructions of how to improve academic performance through the classroom curriculum. The class is separated into three parts: direct instruction, small group work and on your own with tutoring as needed.

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, or participating in clubs.

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, to provide artistic students with a forum where they can discuss art esthetics and technique, and to 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.

Esports Club

Esports Team Mission is to provide a college-level sports team that competes fairly and has a positive impact at PCC and in the community. The team will provide alternative activities for students that engage their general interest and provide skills for future employment in technology.

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.

National Society of Leadership and Success (NSLS)

The NSLS is an organization that provides a life-changing leadership program that helps students achieve personal growth, career success, and empowers them to have a positive impact in their communities. It is the largest leadership honor society in the nation with over 700 chapters in excess of 1,600,000 members nationwide. The NSLS exists for the sole purpose of creating lasting positive change. Through program benefits, scholarships and awards, and more, the NSLS encourages community action, volunteerism, personal growth, and strong leadership. The NSLS chapter at Pueblo Community College began in Spring 2022, with 243 members.

Phi Beta Lambda (PBL)

PBL seeks to develop competent and aggressive business leaders at Pueblo Community College through networking, creating business opportunities, and competition.

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 member's 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.

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.

SkillsUSA Welding Club

The Goal of this club is to stress continuous quality improvement, professional development and workforce orientation by means of mock interviews, welding competitions, manufacturing facilities tours, community service and other extracurricular activities that will help build a culture of professionalism, teamwork, and positive citizenship.

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

The Spectrum club aims to be a place for lesbian, gay, bisexual, trans, queer, questioning, intersex, allies, and two-spirited individuals to feel safe and accepted. We celebrate LGBTQI2+ people and their unique cultures. We welcome and encourage healthy discourse in the effort to understand one another better. We seek to increase LGBTQI2+ resources and support for students at PCC.

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 and Fremont Campuses. 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.

The League of TRIO Students

The League of TRIO Students provides students with experiences and opportunities to further their education through service learning projects, fundraising, and campus & community activities. Students strive to educate the Pueblo community about issues relating to first-generation, limited income, underrepresented students, and students with documented disabilities; all while advocating for their 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.

PCC Southwest Campus

Student Nurse Association

Open to second-year nursing students. Members work with the area Colorado Nurse Association.

Important Legal Information

Family Education Rights and Privacy

Pueblo Community College Notification of Rights Under FERPA

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:

1) The right to inspect and review the student's education records within 45 days of the day Pueblo Community College 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 INSERT TITLE will make arrangements for access and notify the student of the time and place where the records may be inspected.

2) The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights. A student who wishes to ask **Pueblo Community College** to amend a record should write the Records Office, 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 using the Student Grievance Procedure SP 4-31. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3) The right to provide written consent before Pueblo Community College 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 or Colorado Community College System 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. **Pueblo Community College** 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 I.R.S. 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 a student's education record(s) and personally identifiable information (PII) contained in such records — including Social Security Number, grades, or other private information — may be accessed without student consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities ("Federal and State Authorities") may allow access to student records and PII without student 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 student education records and PII without student 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 student 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 student consent PII from student education records, and they may track student participation in education and other programs by linking such PII to other personal information about students 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 Colorado Community College System considers the following to be directory information and **Pueblo Community College** staff may disclose this information, without prior consent, to anyone inquiring in person, by phone, or in writing: Student name; Major field of study; Dates of student attendance; Degrees / certificates and awards student has earned; Most recent educational institution attended by the student; enrollment status (full time, part time, etc.), Participation in officially recognized activities and sports; and if participating in an officially recognized activity or sport, height, weight, and high school attended.

Physical Addresses are considered PII and are not released as directory information except they may be released for the following limited purposes:

Graduation lists released to news media, which may include the student's city of residence only,

Other listings to the news media and College personnel for special awards, honors, and events,

Notification to Phi Theta Kappa Honor Society for students who are eligible to be considered for membership,

As may be needed by cash management service providers engaged by CCCS or the Colleges to process student refunds, or

To institutions who have a written agreement with the CCCS System Office or Pueblo Community College for early advising, scholarship, or admissions consideration. Credit hour threshold for release may be stipulated in system-wide or individual college agreements.

Email Addresses are considered PII and are not released as directory information except they may be released for the following limited purposes:

- Notification to Phi Theta Kappa Honor Society for students who are eligible to be considered for membership,
- As may be needed by cash management service providers engaged by the CCCS System Office or Pueblo Community College to process student refunds, or
- To institutions who have a written agreement with the System or a CCCS college for early advising, scholarship, or admissions consideration. Credit hour threshold for release may be stipulated in system-wide or individual college agreements.

Phone numbers (including type) Date of Birth, Race/Ethnicity, and GPA are considered PII and are not released as Directory Information except for the following limited purpose:

- To institutions who have a written agreement with the CCCS System Office or Pueblo Community College for early advising, scholarship, or admissions consideration. Credit hour threshold for release may be stipulated in system-wide or individual college agreements.

Additionally, name, address, college issued e-mail address, phone number, date and place of birth, level of education, most recently attended college, field of study, and degree(s) received of students may be released to military recruiters upon request in accordance with the Solomon Amendment. All other information contained in student records is considered private and not open to the public without the student's written consent. Students who do not want their directory/public information released to third parties or students who do not want to be listed in the College online e-Directory should complete a form to suppress directory information available online or at the Registrar's Office or Office of Admissions and Records by the first day of the semester.

4) The right to file a complaint with the U.S. 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:

Student Privacy Policy Office

U.S. 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 Vice President 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 Vice President 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 and Sexual Misconduct Notice

Sexual Harassment

The College 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 shall also be a violation of this policy to knowingly make false allegations of sexual harassment.

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when one or more of the following criteria are met:

1. 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.

2. Submission to or rejection of such conduct by an individual is used as the basis for employment or academic educational decisions affecting such individual.

3. Such conduct is sufficiently severe, persistent, or pervasive to have the purpose for effect of unreasonably interfering with an individual's work/academic performance or creating an intimidating, hostile, or offensive working/learning environment.

Matters having sexual connotation, which arise as part of the legitimate educational curricula and do not exploit students to a private advantage would not violate college policy unless used in an improper manner. Examples of sexual harassment may include, but are not necessarily limited to:

1. Physical assault

2. Direct or implied threats that submissions to sexual advances will be a condition of employment, work status, promotion, grades, or letter of recommendation

3. Direct propositions of a sexual nature

4. Subtle pressure for sexual activity

5. A pattern of conduct intended to discomfort or humiliate, or both, a reasonable person at whom the conduct was directed that includes one or more of the following:

i. Touching, patting, hugging, or brushing against a person's body

ii. Remarks of a sexual nature about a person's clothing or body

iii. Remarks about sexual activity or speculation about previous sexual experience

iv. The display in the work or educational arena of sexually suggestive objects or pictures

Individuals who feel that they have been subjected to sexual harassment and are in need of further information as to the procedures, may contact the Vice President of Human Resources, 900 West Orman Avenue, Central Administration, Room 112, Pueblo, CO 81004; Phone: 719.549.3220. All matters involving sexual harassment complaints are taken seriously and shall be investigated. Complaints shall remain confidential to the extent possible. Filing of a complaint or otherwise reporting sexual harassment shall not reflect upon the individual's status or affect future employment, work assignments, or grades.

Sexual Misconduct

Sexual misconduct, including but not limited to sexual assault, sexual abuse, domestic violence, dating violence, and stalking, by any member of the College community is strictly prohibited and will not be tolerated. The College will respond in a firm and judicious manner to all reports of alleged incidents of sexual misconduct.

Definitions: Sexual assault is defined as sexual penetration by use of force or threat of force, or by taking advantage of a victim's helplessness (C.R.S. 18-3-402). Sexual abuse is defined as an act of a sexual nature not covered under sexual assault and which includes but may not be limited to fondling and touching of sexual body parts without consent. Domestic violence is defined as an act or threatened act of violence upon a person with whom the actor is or has been involved in an intimate relationship, or any other crime against a person, or against property, including an animal, or any municipal ordinance violation against a person, or against property, including an animal, when used as a method of coercion, control, punishment, intimidation, or revenge directed against a person with whom the actor is or has been involved in an intimate relationship.(C.R.S.18-6-800.3). Dating violence is defined as the physical, sexual, or psychological/emotional violence within a dating relationship. Stalking is defined as making a credible threat to another person and/or repeatedly follows, approaches, contacts, or places under surveillance that person, a member of that person's immediate family, or someone with whom that person has or has had a continuing relationship (C.R.S. 18-3-602). Consent is defined as cooperation in act or attitude pursuant to an exercise of free will and with knowledge of the nature of the act. A current or previous relationship shall not be sufficient to constitute consent. Submission under the influence of fear shall not constitute consent (C.R.S.18-3-401[1.5]).

Assistance for victims can be found in the Victim's Bill of Rights brochures (refer to the document associated with the student's closest campus) located at the bottom of the PCC Police webpage at this link https://pueblocc.edu/public-safety. Additional information on VAWA, Sexual Misconduct, and Title IX concerns is located on PCC's Sexual Misconduct and Title IX webpage at this link https://pueblocc.edu/Title-IX to include policies, contact information for employees to learn about the process, student resource guide, how to report concerns, etc. Concerns for Sexual Misconduct, Title IX, VAWA, and other concerning behavior can be reported at the PCC webpage to report an incident or concern at this link https://pueblocc.edu/Concerns; the link to report an incident or concern is conveniently located at the bottom of any PCC webpage.

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. PCC also provides important student online safety trainings to include topics on Sexual Misconduct, Title IX, VAWA, Bystander Training, and Alcohol/Other Drugs. Assistance for victims can be found in the Victim's Bill of Rights brochures (refer to the document associated with the student's closest campus) located at the bottom of the PCC Police webpage at this link https://pueblocc.edu/public-safety. Additional information on VAWA, Sexual Misconduct, and Title IX concerns is located on PCC's Sexual Misconduct and Title IX webpage at this link https://pueblocc.edu/Title-IX to include policies, contact information for employees to learn about the process, student resource guide, how to report concerns, etc. Concerns for Sexual Misconduct, Title IX, VAWA, and other concerning behavior can be reported at the PCC webpage to report an incident or concern at this link https://pueblocc.edu/Concerns; the link to report an incident or concern is conveniently located at the bottom of any PCC webpage.

For more information feel free to contact any of the following offices: Vice President of Human Resources/Title IX Coordinator, Vice President of Student Success, Dean of Students, and Chief 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 Chief Student Services Officer.

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 complaint procedure and forms, 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 Operating Protocol & Procedure 112. 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 (6) 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. Additionally, the automotive program requires an application process to include screening. Certain offenses will preclude you from enrolling in a health program. Students should check with the program chair for specific requirements and due dates. Passing the background check and drug screening for admission and continuation in any PCC Health and Public Safety program does not guarantee that a graduate will pass the background check and/or drug screening for licensing or employment

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 malpractice 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 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.

Personnel

College Personnel

Colorado State Board for Community Colleges & Occupational Education

Dr. Landon Mascareñaz, Chair

Terrance D. McWilliams, Vice Chair

Rollie Heath, Immediate Past Chair

Dr. Ross Dueber

Tatiana Hernandez

Dr. Karen McNeil-Miller

Yolanda Ortega

Brad Rupert

Catherine Shull

Steven L. Trujillo

Dr. Catlyn Keenan, Faculty Representative

Hector Vargas, Student Representative

Colorado Community College System

Joe Garcia, Chancellor

Diane Duffy, Executive Vice Chancellor

Mark Superka, Vice Chancellor, Finance & Administration

Dr. Sarah Heath, Vice Chancellor, Academic & Student Affairs

Julie Ouska, Vice Chancellor/CIO, Information Technologies

Christina Cecil, Chief Human Resources Officer

Fiona Lytle, Chief Government & External Affairs Officer

Angie Gramse, General Counsel

Adam Cermak, Chief Development Officer & Foundation Executive Director

Pueblo Community College Advisory Council

Jack Rink, Chair

Sara Blackhurst

Abel Chavez

Rebecca Diaz

Dr. Richard Duran

David Garski

Leon Hanhardt

Adam Hartman

Christopher Madrill

Garrison Ortiz

Ronda Rein

Dr. Velia Rincon

John Roth

Wynona Sullivan

Andy Tonsing

Ron Wiley

PCC Cabinet

Dr. Chato Hazelbaker *President*	**Dr. Patrick Maille** *Dean, Arts & Sciences*
Amanda Corum *Director of Pueblo Corporate College*	**Jennifer Sherman** *Vice President of Academic Support*
RaeAnn Gutierrez *Administrative Professional-Technical Employee Representative*	**Lisa Stiner** *Shared Governance Co-Chair*
Shanda Vidmar *Faculty Council Chair*	**Erin Hergert Tafoya** *Director of Marketing & Communications*
Ray Marquez *Classified Employee Representative*	**Cheryl Gomez** *Dean, Medical & Behavioral Health*
Dr. Andrew Miller *Dean of Health Professions & Public Safety*	**Brett Burke** *Dean, Business and Advanced Technology*
Dana Moss *Vice President of Human Resources*	**Michael Gage** *Vice President of Student Success*

Directors

Barbara Benedict Director – Admissions and Records MSPM, Colorado Technical University BS, Colorado Christian University AAS, Pueblo College of Business and Technology	**Christopher Javornik** Director – Science Lab
William Brown Director – Public Safety AAS, Aims Community College	**Landon Kinney** Director, Institutional Research
Angela Brubaker	**Jonnie Martin**

Director, CTE/Special Assistant to the VPAS BS, Colorado State University Global	Senior Director – Accounting
Maryrose Channell Director, Simulation	**Andrea Martinez** Director – TRIO Student Support Services MSW, University of Denver BA, California State University-San Bernardino
Aaron Daniel Director – Academic Services, Fremont Campus MA, National University	**Amy Matthew** Director, Public Relations BS, University of Southern Colorado
Brian Estrada Business Manager – Small Business Development Center BSBA, Colorado State University-Pueblo	**Elizabeth "Liz" Medendorp** Director – Assessment Student Learning MA, University of Massachusetts Amherst BA, University of Michigan
Robert Gonzalez Senior Director – Budget and Program Development	**Lisa Molina** Regional Director – Student Success, PCC Southwest MA, MS, Central Michigan University
Pamela Grable Director – Financial Aid BSBA, Colorado State University-Pueblo	**Hannah Moody-Goo** Director – Library Services San Jose State University BA, Metropolitan State University-Denver
Pete Green Director, Senior Information Technology BA, University of California Irvine	**Melanie Parlett** Director – Prison Education Programs
Cristina Guerra Director, Learning Center BS, Colorado State University	**Oliver Hazard "Perry" Pepper IV** Regional Director – Academic Services- PCC Southwest MA, Adams State University BA, Fort Lewis College
Jeffrey Huddleston	**Jimmie Romero**

Director, Year-to-Career	Director – Career Services
Richard Ince Director – Pueblo Downtown Studio Campus BSBA, Adams State College	**Angela Shehorn** Director – Children First BA, Regis University AAS, AA, Pueblo Community College
Ed Iniguez Director of Purchasing BS, Colorado State University-Pueblo	**Toni Skilling** Director – Student Life & Leadership MBA, BS, Adams State University AGS, AA, Pueblo Community College
Vernon James Dean of Students MEd, University of South Carolina BS, Presbyterian College	**Jeanelle Soto-Quintana** Director – Pre-College Programs BS, MBA, University of Southern Colorado

Professional/Technical Staff

Alixandria Aguilar Director, TRiO Upward Bound Math & Sciences MBA, BSBA, Colorado State University- Pueblo	**Charles Hurley** Graphic Artist AAS, Pueblo Community College	**Tonya Roberts** Coordinator, Go Zone Services BS, Colorado State University-Pueblo
Jessica Aguilar Academic Excellence Administrator, office of the Dean of Business & Advanced Technology	**Tracey Imel** Coordinator, Concurrent Enrollment & Recruitment – Southwest	**Brionna Rodas** Specialist, Recruiter
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Justin Brown Instructional Designer	**Aaron Lucero** Academic Excellence Administrator MS, Adams State University BS, University of Northern Colorado	**Dominique Son** Coordinator, Recruitment BA, Colorado State University-Pueblo
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Miranda Caro Academic and Career Expert	**Kristina Lyon** Student Success Coach B.S., Colorado State University - Pueblo	**Peyton Sterling** Coach, TRIO Upward Bound Recruitment & Retention

Philip Clark Coordinator, CTE Outreach	**Michael Maffucci** Campus Administrator, Fremont Office of the VP of Administration & Finance	**Michael Streed** Coach, TRIO Upward Bound Career and Academic
Bonnie Clark Coordinator, Disability Resources BA, Regis University	**Anissa Manzanares** Engagement Coach	**Shaylea Strickengloss** Coordinator, Concurrent Enrollment BA, Colorado State University-Pueblo AA, Pueblo Community College
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Amy DeHerrera Student Success Coach	**Lori McGill** Director – Physical Therapist Assistant Program	**Lee Truan** Coordinator, Media Productions
Ariana Delmerico Coordinator, Outreach & Special Projects	**Jamie Medina** Assistant Director, Financial Aid	**Eutimio Trujillo** Coach – TRIO Upward Bound Math and Science

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Patricia Earl Coordinator – Concurrent Education	**Ryan Montoya** **Specialist, Family**	**Paul Valdez** Coordinator, First Year
Lori Epperson Assistant Director, OPTICA Grant	**Leroy Mora** Department Chair/Faculty, Law Enforcement Academy	**Ronald Vigil** Senior Director of Facilities
Stacy Esparza Coordinator, Return to Earn BS, Colorado State University-Pueblo AA, Pueblo Community College	**Paul Murphy** Manager, Core Technologies	**Danielle Waltman** Nursing Laboratory and Clinical Coordinator/Simulation Technician
Lee Files Coach, Retention TRIO Student Success Services	**Tracy Neve** Assistant Director, TRIO Upward Bound MA, University of Colorado-Colorado Springs BS, Colorado State University-Pueblo BS, University of Northern Colorado	**Rebecca Wasil** Advisor, Disability Resources BA, The Ohio State University
Daniel Fink Coordinator, Renewable Energy Program	**Andrew Nunn** Coordinator, E-sports & Tech Pathways MS, Colorado State University-Global	**Melissa Watters** Academic & Career Expert, PCC Southwest MS, Northwestern University BA, The University of Illinois at Chicago
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Andrew Garcia Coach, TRiO Upward Bound Recruitment & Retention BA, Colorado State University-Pueblo	**Douglas Parker** Coordinator, Law Enforcement Academy- PCC Southwest BS, University of Colorado	**Scott Wilson** Assistant Controller, Fiscal Operations
Nicole Gennetta Coordinator, Health & Pueblic Safety Simulation	**David Peralta** Student Success Coach BS, Colorado State University-Pueblo AA, Pueblo Community College	**Alexander Winter** Specialist – Implementation
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Crystal Hernandez Student Success Coach BS, Colorado State University-Pueblo	**Lea Rivera** Student Success Coach Student Support & Outreach	

Faculty

Nicholas Alfonso Department Chair/Faculty – Science	**James Jones** Faculty-Welding	**Roger Pfannenschmid** Faculty – Automotive

MS, BS, Colorado State University-Pueblo		AGS, Pueblo Community College
Jeannie Almanza Faculty – Radiologic Technology MA, University of Phoenix BA, Ottawa University AAS, Hutchinson Community College & Area Vocational School	**Richard "Todd" Jones** Faculty-Emergency Medical Services BS, Colorado State University AA, Northeastern Junior College	**Janardan Pokharel** Faculty – Mathematics & Physics MS, University of North Dakota
Randall Arellano Faculty, Welding	**Iwona Kaczynska-Pangtay** Faculty, Health Information Management	**Joan Pope** Faculty/Coordinator – Nursing, Fremont MSN, University of Central Florida BS, University of Colorado
Adrian Banister Faculty – Business MBA, Colorado Technical University BSBA, Colorado State University-Pueblo AGS, Pueblo Community College	**Mary "Avia" Kallage** Faculty – Astronomy and Geology MS, BA, University of Colorado-Colorado Springs	**Adam Pottorff** Faculty, Computer Science
Linda Blasi Department Chair – Dental Hygiene Program	**Richard Keilholtz** Faculty – Social Sciences, Education, and Criminal Justice JD, Southern Illinois University-Carbondale BA, University of Iowa	**Jennifer Preble** Faculty, Physical Therapist Assistant
John Bradford (Brad) Bowers Faculty – History MA, Utah State University BA, Colorado State University-Pueblo	**Michael Kopetas** Faculty/Coordinator, Cyber Security	**Robert Reed** Faculty – Welding, PCC Southwest
Marisa Camper Faculty – Dental Hygiene	**Amanda Kuiken** Faculty – Biology, Fremont	**Patricia Rello** Faculty/Clinical Coordinator – Radiologic Technology

BS, Oregon Institute of Technology AAS, Pueblo Community College	MS, Colorado State University-Pueblo BA, University of Colorado-Boulder	BS, University of Central Florida
Gregory Carlson Faculty -- Mathematics	**Kimberly Kushner** Faculty – Science MS, BS, Colorado State University-Pueblo AS, Pueblo Community College	**Donna Riggert** Faculty, Emergency Medical Services
Sarah Case Faculty – Respiratory Therapy	**Nadine LaForme** Faculty – Surgical Technology AS, Colorado Technical University	**Lynne Ross, LMT** Faculty/Coordinator – Human Anatomy Learning Ctr (HALC) MS, Auburn University BS, State University of New York College at Cortland
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Judy Costanza Faculty – Dental Hygiene BS, University of Missouri-Kansas City AAS, Pueblo Community College	**Alejandra Marrufo** Nursing BSN Coordinator	**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
Roger Cox	**Shaun Martin** Department Chair, Fire Science	**Christopher Sicilia** Faculty, Machining

Department Chair/Faculty – Radiology Technology MS, Kaplan University BS, Franklin University AS, Pueblo Community College		
Christine Deem Faculty, LPN/Coordinator	**Dawnelle Mathis** Department Chair/Faculty – Emergency Medical Services MS, New York Chiropractic College BS, Sioux Falls College	**John Sinks** Faculty – Welding AAS, Pueblo Community College
Nadine Donoho-Montoya Faculty, Communications	**Thomas Mattarocci** Faculty – English	**Laurel Smerch** Faculty, Natural Resources
Dustin Dunaway Department Chair/Faculty – English/Communication MA, BA, University of Colorado-Colorado Springs	**Kathy Maurello** Department Chair/Faculty – Medical Assisting BS, Colorado State University-Pueblo AAS, Pueblo Community College	**Carter Smith** Faculty/Coordinator – Emergency Medical Services, SCCC BS, Grand Canyon University AS, Pueblo Community College
John Duston Faculty – Auto Service Technology, Fremont AAS, Blair College	**Casey Mauth** Faculty, Emergency Medical Services	**Crystal Stark** Faculty – Nursing, Fremont MSN, Regis University BSN, Colorado State University-Pueblo
Eahehart, Abigail Faculty – Emergency Medical Services	**Amanda Mayes** Faculty – Biology/Chemistry MS, BS, Colorado State University-Pueblo	**Lori Steinbeck** Faculty – Nursing - Fremont
Michele Edwards Department Chair/Faculty – Cosmetology Certificate/License Cosmetology	**Kimberly McCullah** Faculty/Coordinator – Dental Hygiene	**Marilyn Tabor** Faculty – Nursing M.S., Colorado State University-Pueblo BSN, University of Phoenix
Chrystal Everett Faculty, Nursing	**Molly Milusnic**	**Shawna Tracy**

	Faculty/Coordinator, Early Childhood Education	Department Chair/Faculty – Respiratory Care MS, Northeastern University BS, Boise State University AAS, Pueblo Community College
Jacob Farmer Assistant Department Chair/Faculty, Mathematics	**Diana Montoya** Department Chair/Faculty – Surgical Technology BS, Colorado Technical University AA, University of Phoenix	**Dana Trujillo** Faculty, English
Craig Feigenbaum Faculty/Coordinator – Biology, PCC Southwest MS, Colorado State University	**Mary Nicks** Faculty – Nursing MSN, Walden University BSN, University of Southern Colorado	**Andrea Valencia** Faculty – Cosmetology Certificate, Pueblo Community College
Samuel Fletcher Faculty – Psychology	**Zachary Nixon** Faculty – Criminal Justice	**William Venn** Faculty, Dental Hygiene
Timothy Gama Department Chair/Faculty – CIS/HIT BS, Trinity College	**Amanda Nordmeyer** Faculty, Surgical Technology Clinical	**Jennifer Vette** Coordinator/Faculty – Occupational Therapy MOT, Western New Mexico University BS, Colorado State University AAS, Pueblo Community College
Ronda Gasperetti Faculty -- Health Information Technology BSBA, Colorado Technical University	**Edwilyn O'Brien** Faculty – Nursing, PCC Southwest MSN, Post University, American Sentinel College of Nursing & Health Sciences BSN, The University of New Mexico. ADN, San Juan College	**Brandon Vialpando** Faculty, Industrial Technology Maintenance
Pamela Graham	**Michelle Ohnemus**	**Shanda Vidmar**

Faculty – Cosmetology	Department Chair/Faculty, Nursing Assistant	Faculty – Science MS, Colorado State University BS, University of Southern Colorado
Patricia Greene Faculty, Supervising Dentist	**Ann Oreskovich** Department Chair/Faculty – Fine Arts & Humanities MA, Eastern Illinois University MFA, Washington University BA, Grinnell College	**Tricia Vigil** Department Chair/Faculty – Occupational Therapy Assistant MBA, Colorado Technical University BS, Utica College of Syracuse University
Benjamin Gregersen Faculty – Mathematics	**Christopher Osinski** Faculty/Coordinator	**Daniel Vinci** Faculty – Welding, Fremont AAS, Pueblo Community College
Cody Hager Faculty – Welding, PCC Southwest	**Lisa Pacheco** Faculty – Cosmetology	**Gregg White** Department Chair/Faculty – Machining/Welding ASC, Lower Colombia College
Brandi Halvorson Department Chair/Faculty, Health Professions	**Travis Parkhurst** Faculty – Philosophy MA, Yale Divinity School	**Jeffrey Wingham** Faculty – Biology DC, BS, Logan College of Chiropractic
Kristen Harshberger Department Chair/Faculty, Business & Accounting	**Jamie Patti** Faculty – English/Communication MA, BA, University of Colorado AA, Pueblo Community College	**Tracy Williams** Department Chair/Faculty – Psychology
Gertrud "Marianne" Horvath Faculty/Coordinator – Health Information Technology BS, University of Colorado-Colorado Springs	**Brett Pavlik** Faculty – Welding BA, Fort Lewis College	**Cleary Wunder** Faculty – Nursing
Joseph Jaburg Faculty, Automotive SW	**Dr. Michael Payne** Department Chair/Faculty – Mathematics PhD, The University of New Mexico	**Dr. Adam Zaleski** Faculty – Psychology PhD, Colorado State University

	MS, BA. University of Colorado-Colorado Springs	BA, San Diego State University
Callico Jones Department Chair, Behavioral Health		

Classified Employees

Stefana Adcock Administrative Assistant III	**Tina T. Gold** Accounting Technician III MBA, Colorado Technical University-Pueblo	**Henderson McClure** Custodian I
Stephanie Albers Custodian I	**Ronald Griffin** Materials Handler I AAS, Certificate, Pueblo Community College	**Cynthia A. Miller** Materials Handler III
Irene Alcon Administrative Assistant III	**William K. Hardwick** Laboratory Coordinator I AAS, Pueblo Community College	**Dwight Million** Grounds & Nursery I
Cassidy Aldona Custodian I, Facility Services	**Deborah K. Herrera** Administrative Assistant III, Fremont AAS, Pueblo Community College	**Kari Monack** Program Assistant I
Susan Anger Administrative Assistant III	**Trisha Hohisel** Administrative Assistant II, Office of the Dean of Arts & Science	**Carma Moore** Administrative Assistant III, PCC Southwest
Stephanie Armijo Custodian III	**Lorna Jackson** Administrative Assistant III	**Lisa A. Morales** Administrative Assistant III BSBA, Adams State University AAS, Pueblo Community College
Trina Jiron Belford Administrative Assistant III, Fremont BA, American Military University	**Julie C. Jimenez** Program Assistant II BS, Regis University	**Marcella R. Noriega** Administrative Assistant III
Gordon L. Bell	**Kathleen J. Kaufmann**	**Laurie Plutt**

Structural Trades II, Fremont	Program Assistant I	Technician I, Campus Security Officer
Shirley D. Carey Program Assistant I AAS, Pueblo Community College	**Dutch Ledford** Custodian I, Facility Services	**Daniel Ramos** Structural Trades II – Facility Services
Amanda D. Dear Accounting Technician III	**Clayton LePlatt** Police Officer I	**Dawn Reitz** Library Technician II
Arlene K. Dockter Custodian I	**Jacob Lewis** General Labor I, Fremont	**Jose J. Renner** Police Officer II BS, Colorado State University-Global Campus AAS, Pueblo Community College
Whitney M. Donovan Administrative Assistant III, Fremont AGS, Pueblo Community College	**Leticia Lizardi** Accounting Technician III AGS, Pueblo Community College	**Yvette Rodriguez** Administrative Assistant II
Cody Dornhecker Campus Security Officer – Fremont	**Frank Lopez** **Grounds & Nursery I**	**Jimmie J. Sena** Grounds & Nursery II
Allison Duke Administrative Assistant III Business & Advanced Technology	**William W. Lorimor** Structural Trades II	**Morgan Smith** Administrative Assistant II -- CIS
Nicki Eastin General Labor I, PCC Southwest	**Alicia Lovato** Human Resource Specialist III AAS, Pueblo Community College	**Riki Takaoka** Custodian I
Carolee Edmondson Accounting Technician III BS, Adams State University AAS, Pueblo Community College	**Ynette Lucero** Accounting Technician II	**Celestino "Ray" R. Torres** Custodian I
Brooklyn Enrique Administrative Assistant II, Nursing	**Natalie Lujan** Administrative Assistant III	**Carl M. Vasquez** IT Professional I
Kent Ervin	**Arthur A. Luna**	**Elsie Walck**

Police Officer I	IT Professional I AAS, Pueblo Community College	Administrative Assistant II
Bianca J. Flores Administrative Assistant III	**James Mai** Structural Trades II	**Megan Waterman** Administrative Assistant II, SW
Kelly Gagneaux Structural Trades II	**Raymond Marquez** LTC Operations I	**Alexander Watson** Custodial I – Facility Services
Amanda Kiefer Garcia Custodian I	**Teresa F. Mathews** Administrative Assistant III	

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	**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
Dr. Lana Carter Hired: Oct. 11, 1999 Retired: June 30, 2018 Department: Fremont Campus Executive Dean, Fremont Campus PhD, MS, Colorado State University	**Carol Himes** Hired: Aug. 25, 1983 Retired: May 31, 2015 Department: Culinary Arts & Hospitality Studies Department Chair/Faculty MEd, Boston University BA, Cornell University

Mary Chavez Hired: August 26, 1991 Retired: June 30, 2021 Department: Health Professions & Public Safety Dean, Health Professions & Public Safety MEd, University of Phoenix BS, University of Southern Colorado AAS Colby Community College	**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
Elsa Eccles Hired: Jan 4, 2000 Retired: July 31, 2018 Department: Dental Hygiene Department Chair/Faculty MEd, Regis University BS, MS University of Phoenix AAS Pueblo Community College	**Sara McKinnon** Hired: Aug. 24, 1987 Retired: June 30, 2014 Department: English/Communications Faculty MA, BA, University of Illinois AA, Springfield College
David Edwards Hired: Aug. 25. 1992 Retired: June 30, 2018 Department: Fine Arts & Humanities Department Chair/Faculty MEd, Central State University BS, Harding College	**Lucinda "Cindy" Mihelich** Hired: Jan. 9, 1990 Retired: Sept. 30, 2012 Department: Physical Therapist Assistant Faculty MEd, Colorado State University BS, University of Colorado-Boulder
Gary Franchi Hired: Sept. 17, 1990 Retired: Nov. 20, 2015 Department: Marketing and Communications	**Carol Montoya** Hired: Dec. 1, 1990 Retired: Jan. 1, 2007 Department: Learning Center

Coordinator, Public Relations BS, Central Michigan University	Director, Learning Center MA, BA, Adams State College
Rita Friberg Hired: Oct. 1, 1994 Retired: May 15, 2015 Department: Management & Marketing Faculty MS, Colorado State University BS, Purdue University	**Rebecca Robler** Hired: Aug. 22, 1988 Retired: Aug. 31, 2007 Department: Occupational Therapy Assistant Department Chair/Faculty MEd, BS, OTR, Colorado State University
W. Jeanne Gardner Hired: April 9, 1984 Retired: Dec. 31, 2015 Department: Library Services Director, Library Services MA, BA, University of Missouri	**Boyd Rodman** Hired: Aug. 19, 1999 Retired: May 31, 2017 Department: Computer Information Systems Department Chair/Faculty MS, BS, Regis University AAS Pikes Peak Community College
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	**Florencio Ruiz** Hired: Feb. 16, 1976 Retired: Feb. 29, 2004 Department: Business and Technology Senior Maintenance Mechanic AAS, Southern Colorado State College

Department Chairs

Department chair table			
Program Name	Chair	AEA	Dean
Accounting, AAS	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Advanced Emergency Medical Technician	Dawn Mathis	Janelle Dunnington	Andrew Miller
Advanced Emergency Medical Technology AAS	Dawn Mathis	Janelle Dunnington	Andrew Miller
Advanced Paramedic Practitioner BAS	Dawn Mathis	Janelle Dunnington	Andrew Miller
Agricultural Production Management	Vacant (Agriculture)	Vacant (B&T)	Brett Burke
Air Conditioning Mini-Certificate	James Cordova	Vacant (B&T)	Brett Burke
Anthropology, AA (with Designation)	Tracy Williams	Jonah Leach	Patrick Maille
Applied Technology, AAS	Vacant	Vacant (B&T)	Brett Burke
Art History, AA (with Designation)	Shawna Shoaf	Jonah Leach	Patrick Maille
Associate Degree Nursing	Shanna Ricker	Aaron Lucero	Cheryl Gomez
Associates of Engineering Science	Nick Alfonso	Jonah Leach	Patrick Maille
Automatic Transmissions Mini-Certificate	James Cordova	Vacant (B&T)	Brett Burke
Bachelor of Science in Nursing	Shanna Ricker	Aaron Lucero	Cheryl Gomez
Barber Endorsement	Michele Edwards	Janelle Dunnington	Andrew Miller
Barbering Certificate	Michele Edwards	Janelle Dunnington	Andrew Miller
Basic Machining	Gregg White	Vacant (B&T)	Brett Burke

Department chair table			
Program Name	Chair	AEA	Dean
Basic Wildland Firefighter Mini-Certificate	Shaun Martin	Janelle Dunnington	Andrew Miller
Behavioral Health AAS	Mary Chavez	Aaron Lucero	Cheryl Gomez
Behavioral Health: Addiction Recovery AAS	Mary Chavez	Aaron Lucero	Cheryl Gomez
Biology, AS (with Designation)	Nick Alfonso	Jonah Leach	Patrick Maille
Bookkeeping Certificate	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Broadcasting & Production Technology Certificate	Shawna Shoaf	Jonah Leach	Patrick Maille
Business Fundamentals Certificate	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Business Management Certificate	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Business Management, AAS	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Business Ownership AAS	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Business Ownership Certificate	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Business, AA (with Designation)	Kristen Harshbarger	Vacant (B&T)	Brett Burke
CAD Basic	Gregg White	Vacant (B&T)	Brett Burke
Chemistry, AS (with Designation)	Nick Alfonso	Jonah Leach	Patrick Maille
CIS: Basic Assurance	Tim Gama	Vacant (B&T)	Brett Burke
CIS: Certification Prep	Tim Gama	Vacant (B&T)	Brett Burke
CIS: Cybersecurity AAS	Tim Gama	Vacant (B&T)	Brett Burke

Department chair table			
Program Name	Chair	AEA	Dean
CIS: Cybersecurity Certificate	Tim Gama	Vacant (B&T)	Brett Burke
CIS: Microsoft Office	Tim Gama	Vacant (B&T)	Brett Burke
CIS: Networking Security	Tim Gama	Vacant (B&T)	Brett Burke
CIS: Networking Technology	Tim Gama	Vacant (B&T)	Brett Burke
CNC Machining	Gregg White	Vacant (B&T)	Brett Burke
Communication, AA (with Designation)	Dustin Dunaway	Jonah Leach	Patrick Maille
Comp-Aided:Dsgn & Mfg: CAD/CAM	Gregg White	Vacant (B&T)	Brett Burke
Computed Tomography, BAS	Roger Cox	Janelle Dunnington	Andrew Miller
Computer Information Systems, AGS (with Transfer Articulation Agreement)	Tim Gama	Vacant (B&T)	Brett Burke
Computer Science, DwD	Tim Gama	Vacant (B&T)	Brett Burke
Computer Support Technician	Tim Gama	Vacant (B&T)	Brett Burke
Construction NCCER Certificate	Vacant	Vacant (B&T)	Brett Burke
Construction Technician Basic Mini-Certificate	Gregg White	Vacant (B&T)	Brett Burke
Cosmetology Certificate	Michele Edwards	Janelle Dunnington	Andrew Miller
Cosmetology, AAS	Michele Edwards	Janelle Dunnington	Andrew Miller
Criminal Justice, AA (with Designation)	Tracy Williams	Jonah Leach	Patrick Maille
Criminology, AA (CSU-P Transfer)	Tracy Williams	Jonah Leach	Patrick Maille
Dental Hygiene, AAS	Linda Blasi	Janelle Dunnington	Andrew Miller
Dental Hygiene, BAS	Linda Blasi	Janelle Dunnington	Andrew Miller

Department chair table			
Program Name	Chair	AEA	Dean
Early Childhood Director Certificate	Tracy Williams	Jonah Leach	Patrick Maille
Early Childhood Education, AAS	Tracy Williams	Jonah Leach	Patrick Maille
Early Childhood Entry Level Certificate	Tracy Williams	Jonah Leach	Patrick Maille
Early Childhood Teacher Certificate	Tracy Williams	Jonah Leach	Patrick Maille
Early Childhood Teacher Education, AA (with Designation)	Tracy Williams	Jonah Leach	Patrick Maille
Economics, AA (with Designation)	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Electromechanical Technology Certificate	Catlin Davis	Vacant (B&T)	Brett Burke
Electromechanical Technology, AAS	Catlin Davis	Vacant (B&T)	Brett Burke
Elementary Teacher Education, AA (with Transfer Articulation Agreement)	Tracy Williams	Jonah Leach	Patrick Maille
Emergency Medical Services, AAS	Dawn Mathis	Janelle Dunnington	Andrew Miller
Emergency Medical Technician Mini-Certificate	Dawn Mathis	Janelle Dunnington	Andrew Miller
EMT Enhanced Certificate	Dawn Mathis	Janelle Dunnington	Andrew Miller
Engine and Electrical Mini-Certificate	James Cordova	Vacant (B&T)	Brett Burke
English, Literature Emphasis, AA (with Designation)	Dustin Dunaway	Jonah Leach	Patrick Maille
Esthetician Certificate	Michele Edwards	Janelle Dunnington	Andrew Miller
Fire Sci Structure Academy	Shaun Martin	Janelle Dunnington	Andrew Miller
Fire Sci: Prevention/Edu	Shaun Martin	Janelle Dunnington	Andrew Miller

Department chair table			
Program Name	Chair	AEA	Dean
Fire Sci: Struct Investigator	Shaun Martin	Janelle Dunnington	Andrew Miller
Fire Sci: Vehicl Extraction	Shaun Martin	Janelle Dunnington	Andrew Miller
Fire Science Technology AAS	Shaun Martin	Janelle Dunnington	Andrew Miller
Fire Science: Basic	Shaun Martin	Janelle Dunnington	Andrew Miller
Fire Science: Fire Fighter I	Shaun Martin	Janelle Dunnington	Andrew Miller
Fire Science: Officer I	Shaun Martin	Janelle Dunnington	Andrew Miller
Firefighter Academy Structural Mini-Certificate	Shaun Martin	Janelle Dunnington	Andrew Miller
Fitter or Combination Welder Certificate	Catlin Davis	Vacant (B&T)	Brett Burke
Forensic Computing Certificate	Tim Gama	Vacant (B&T)	Brett Burke
Fuels and Emissions Mini-Certificate	James Cordova	Vacant (B&T)	Brett Burke
General Automotive Technology, AAS	James Cordova	Vacant (B&T)	Brett Burke
Geology, AS (with Designation)	Nick Alfonso	Jonah Leach	Patrick Maille
Graphic Design AAS	Shawna Shoaf	Jonah Leach	Patrick Maille
Hairstylist Barber Crossover	Michele Edwards	Janelle Dunnington	Andrew Miller
Hairstylist Certificate	Michele Edwards	Janelle Dunnington	Andrew Miller
Health Info Technology (HIT)	Tim Gama	Vacant (B&T)	Brett Burke
Health Information Management BAS	Tim Gama	Vacant (B&T)	Brett Burke
Healthcare Information Systems AAS	Tim Gama	Vacant (B&T)	Brett Burke

Department chair table			
Program Name	Chair	AEA	Dean
High Pressure Pipe Welder Mini-Certificate	Catlin Davis	Vacant (B&T)	Brett Burke
History, AA (with Designation)	Tracy Williams	Jonah Leach	Patrick Maille
HIT Medical Coding AAS	Tim Gama	Vacant (B&T)	Brett Burke
HIT: Medical Coding	Tim Gama	Vacant (B&T)	Brett Burke
Industrial Technology Maintenance Level I Certificate	Gregg White	Vacant (B&T)	Brett Burke
Industrial Technology Maintenance Level II Mini-Certificate	Gregg White	Vacant (B&T)	Brett Burke
Industrial Technology Maintenance, AAS	Gregg White	Vacant (B&T)	Brett Burke
Infant Toddler Supervisor Mini-Certificate	Tracy Williams	Jonah Leach	Patrick Maille
Intermediate Structural Certificate	Catlin Davis	Vacant (B&T)	Brett Burke
Introduction to Agriculture	Vacant (Agriculture)	Vacant (B&T)	Brett Burke
Introduction to Design Technology	Gregg White	Vacant (B&T)	Brett Burke
Introduction to Media Communications Mini-Certificate	Shawna Shoaf	Jonah Leach	Patrick Maille
Introductory Structural Certificate	Catlin Davis	Vacant (B&T)	Brett Burke
Law Enforcement Academy Certificate	Leroy Mora	Janelle Dunnington	Andrew Miller
Law Enforcement, AAS	Leroy Mora	Janelle Dunnington	Andrew Miller
Leadership Studies Mini-Certificate	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Library Technician Certificate	Dustin Dunaway	Jonah Leach	Patrick Maille
Library Technician, AAS	Dustin Dunaway	Jonah Leach	Patrick Maille
Local Anesthesia and Nitrous Oxide/Oxygen Sedation Mini-Certificate	Linda Blasi	Janelle Dunnington	Andrew Miller

Department chair table			
Program Name	Chair	AEA	Dean
Low Pressure Pipe Welder Mini-Certificate	Catlin Davis	Vacant (B&T)	Brett Burke
Machining Technology, AAS	Gregg White	Vacant (B&T)	Brett Burke
Machining Technology, Inspection Certificate	Gregg White	Vacant (B&T)	Brett Burke
Magnetic Resonance Imaging, BAS	Roger Cox	Janelle Dunnington	Andrew Miller
Manual Machining Certificate	Gregg White	Vacant (B&T)	Brett Burke
Manual Transmissions Mini-Certificate	James Cordova	Vacant (B&T)	Brett Burke
Mass Communications, AGS (with Transfer Articulation Agreement)	Shawna Shoaf	Jonah Leach	Patrick Maille
Mathematics, AS (with Designation)	Michael Payne	Jonah Leach	Patrick Maille
Med Prep for Nursing Assistant Mini-Certificate	Michelle Ohnemus	Aaron Lucero	Cheryl Gomez
Medical Assistant Certificate	Kathy Maurello	Aaron Lucero	Cheryl Gomez
Medical Assistant, AAS	Kathy Maurello	Aaron Lucero	Cheryl Gomez
Medical Sonography, AAS	Roger Cox	Janelle Dunnington	Andrew Miller
Mental Health Aide	Mary Chavez	Aaron Lucero	Cheryl Gomez
Mental Health Support Specialist	Mary Chavez	Aaron Lucero	Cheryl Gomez
MGD Video Production	Shawna Shoaf	Jonah Leach	Patrick Maille
Nail Technician	Michele Edwards	Janelle Dunnington	Andrew Miller
Nurse Aide	Michelle Ohnemus	Aaron Lucero	Cheryl Gomez

Department chair table			
Program Name	Chair	AEA	Dean
Nursing, LPN to ADN, AAS	Shanna Ricker	Aaron Lucero	Cheryl Gomez
Occupational Therapy Assistant, AAS	Tricia Vigil	Janelle Dunnington	Andrew Miller
Office Professional	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Paramedic Option Certificate	Dawn Mathis	Janelle Dunnington	Andrew Miller
Paramedic Prep	Dawn Mathis	Janelle Dunnington	Andrew Miller
Paramedic to Associate Degree Nursing	Shanna Ricker	Aaron Lucero	Cheryl Gomez
Pharmacy Technician Certificate	Brandi Halvorson	Janelle Dunnington	Andrew Miller
Philosophy, AA (with Designation)	Dustin Dunaway	Jonah Leach	Patrick Maille
Phlebotomy Technician Mini-Certificate	Brandi Halvorson	Janelle Dunnington	Andrew Miller
Photovoltaic Panel Installation CER	Gregg White	Vacant (B&T)	Brett Burke
Physical Therapist Assistant, AAS	Lori McGill	Janelle Dunnington	Andrew Miller
PN Opt-out Certificate	Shanna Ricker	Aaron Lucero	Cheryl Gomez
Police Science Certificate	Tracy Williams	Jonah Leach	Patrick Maille
Political Science, AA (with Designation)	Tracy Williams	Jonah Leach	Patrick Maille
Practical Nursing (PN)	Shanna Ricker	Aaron Lucero	Cheryl Gomez
Pre-Engineering Transfer to CSU-P	Nick Alfonso	Jonah Leach	Patrick Maille
Production Technician Certificate	Catlin Davis	Vacant (B&T)	Brett Burke

Department chair table			
Program Name	Chair	AEA	Dean
Professional Communication Certificate	Shawna Shoaf	Jonah Leach	Patrick Maille
Programming Mini-Certificate	Tim Gama	Vacant (B&T)	Brett Burke
Psychiatric Technician Certificate	Shanna Ricker	Aaron Lucero	Cheryl Gomez
Psychology, AA (with Designation)	Tracy Williams	Jonah Leach	Patrick Maille
Psychology, AS (with Designation)	Tracy Williams	Jonah Leach	Patrick Maille
Public Health, DwD	Vacant	Janelle Dunnington	Andrew Miller
Radiologic Technology BAS	Roger Cox	Janelle Dunnington	Andrew Miller
Radiologic Technology, AAS	Roger Cox	Janelle Dunnington	Andrew Miller
Respiratory Therapy, AAS	Shawna Tracy	Janelle Dunnington	Andrew Miller
Respiratory Therapy, BAS	Shawna Tracy	Janelle Dunnington	Andrew Miller
Safety and Leadership	Kristen Harshbarger	Vacant (B&T)	Brett Burke
Secure Software Development BAS	Tim Gama	Vacant (B&T)	Brett Burke
Secure Software Development Certificate	Tim Gama	Vacant (B&T)	Brett Burke
Social Work, AA (with Transfer Articulation Agreement)	Tracy Williams	Jonah Leach	Patrick Maille
Sociology, AA (with Designation)	Tracy Williams	Jonah Leach	Patrick Maille
Software Development and Security AAS	Tim Gama	Vacant (B&T)	Brett Burke
Solidworks/3D Modeling	Gregg White	Vacant (B&T)	Brett Burke
SQL Coding Certificate	Tim Gama	Vacant (B&T)	Brett Burke

Department chair table			
Program Name	Chair	AEA	Dean
Steering and Suspension/Brakes Mini-Certificate	James Cordova	Vacant (B&T)	Brett Burke
Structural Welder Certificate	Catlin Davis	Vacant (B&T)	Brett Burke
Studio Art, AA (with Designation)	Shawna Shoaf	Jonah Leach	Patrick Maille
Surgical Technology, AAS	Diana Montoya	Aaron Lucero	Cheryl Gomez
UAS: Drone Technology 1	Vacant	Vacant (B&T)	Brett Burke
UAS: Drone Technology 2	Vacant	Vacant (B&T)	Brett Burke
Web Design and Development, AAS	Shawna Shoaf	Jonah Leach	Patrick Maille
Web Design Certificate	Shawna Shoaf	Jonah Leach	Patrick Maille
Welding Certificate	Catlin Davis	Vacant (B&T)	Brett Burke
Welding Multi-Process Certficiate	Catlin Davis	Vacant (B&T)	Brett Burke
Welding, AAS	Catlin Davis	Vacant (B&T)	Brett Burke
Wildland Firefighter Mini-Certificate	Shaun Martin	Janelle Dunnington	Andrew Miller

Archived Catalogs

See below for PDFs of archived catalogs by academic year.

- 2023-24 Catalog (Archived)
- 2022-23 Catalog (Archived)
- 2021-22 Catalog (Archived)
- 2020-21 Catalog (Archived)
- 2019-20 Catalog (Archived)
- 2018-19 Catalog (Archived)
- 2017-18 Catalog (Archived)
- 2016-17 Catalog (Archived)
- 2015-16 Catalog (Archived)
- 2014-15 Catalog (Archived)
- 2013-14 Catalog (Archived)

Bachelor Applied Science

Description:

The Bachelor of Applied Science degree is the designated degree for flexible baccalaureate programs that are designed to accommodate the unique demands for entry and advancement within specific workforce sectors. BAS programs provide degree completion opportunities for students from a variety of educational backgrounds, but primarily those with Associate of Applied Science (AAS) degrees or the equivalent. BAS degrees typically build on the curriculum requirements for an AAS degree. As such, BAS degrees are often considered to be stackable degrees, meaning that all of the requirements for the AAS degree are either included in, or receive full recognition and credit within the BAS program requirements. Consequently, both the technical and general education courses completed in an AAS degree count fully toward BAS degree requirements. Because the general education requirements often vary considerably for AAS degrees due to the targeted focus of their career and technical fields, PCC provides great flexibility to faculty in structuring AAS degree general education requirements. It is the intent of the general education philosophy for BAS degrees that all general education courses successfully completed by students in their AAS degrees count fully toward the overall BAS general education requirements.

The Bachelor of Applied Science degree is designed to provide a four-year degree in a true 2+2 manner for students who already have an Associate of Applied Science degree and are ready to take on more technical responsibility. This is a popular option for workforce development and advancement. This degree provides students with an academic training to further their careers.

Each BAS completion degree will have 120 credit hours. Thirty of these credits must be taken in residence at PCC per the Higher Learning Commission (HLC) accreditation requirements. Admission criteria may change depending on the degree and academic advising is key to understanding the requirements for admission.

Prerequisites:

Completion of an Associate of Applied Science (AAS) degree in the appropriate field of study.

Requirements for the BAS degree is detailed in this section of the catalog. PCC offers the following BAS degree:

- Dental Hygiene, BAS
- Radiologic Technology
    - Computed Tomography, BAS
    - Magnetic Resonance Imaging, BAS
- Advanced Paramedic Practitioner BAS
- Bachelor of Science in Nursing
- Respiratory Therapy, BAS
- Secure Software Development BAS
- Health Information Management BAS

Degree and Certificate Programs

PCC grants Bachelor of Applied Science (BAS), Associate of Arts (AA), Associate of Science (AS), Associate of General Studies (AGS) and Associate of Applied Science (AAS) degrees. PCC also grants Certificates of Completion (CERT).

PCC's programs are approved by the Colorado Department of Higher Education (CDHE), which approves degrees, and by the Colorado Community College System (CCCS), which approves certificates. The PCC Curriculum and Academic Standards Committee reviews and approves new programs or changes to existing programs before they are forwarded to these agencies for approval.

Each program requires a major area of concentration comprising a defined sequence of courses. An associate degree requires a minimum of 60 semester hours and a certificate requires a minimum of two courses.

General education courses are a part of every degree program regardless of major; these courses impart common knowledge, intellectual concepts and attitudes that every educated person should possess.

The general education courses for the AA, AS, generalist AGS and AAS degrees are identified in the general education curriculum of each of those degrees. The AGS technical pre-professional transfer degrees in Computer Information Systems, Criminal Justice and Mass Communications have particular general education requirements within each degree.

For AGS degrees, no designation of an emphasis area or concentration may appear on a transcript or diploma, other than "Liberal Studies."

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."

Technology Recommendations

Internet

• A Broadband (Cable, DSL, Fiber or LAN) connection at home is recommended (but not required) for optimal student experience. A broadband Internet connection with a connection speed of 1.5 MB/s or higher is recommended
• The use of satellite and cellular connections may result in slowness or errors (timeouts, access problems) when accessing the classroom and course materials.
• The use of public access computers and internet (for example, at libraries, public locations) may result in slowness or errors (timeouts or access problems) when accessing some classroom and course materials. Public access computers may not permit any access to certain course materials or systems due to security limitations.
• PCC provides free Internet access on campus to all PCC Students who bring their own computers on campus.
• Limited access to PCC computers is provided in some classrooms.

Computer

Every student is encouraged to bring a laptop computer (Windows or MAC Based) to campus for use in class.

Computer Specifications*:

- If at all possible use a computer that is less than 5 years old
- Intel Core i3 or AMD A8 or higher
- Processor speed: 2 GHz or faster

- RAM: 4 GB or greater
- Monitor and video card with 1024x768 or greater resolution.
- A web camera capable of video web conferencing
- Microphone and headset recommended but not required

*Program-specific requirements may be required for your degree program. Please see below.

Software and Applications

Other Required Software

- Adobe Acrobat Reader
- Adobe Flash Player
- Microsoft Silverlight player
- Microsoft Office 2010 or higher (Microsoft Office 365 is provided to all current PCC students. Students can download the current version of office to a personal computer.)
- Local administrative privileges to the operating system may be required
- A current antivirus application that is updated and scanned regularly

Mobile Recommendations

Courses at Pueblo Community College may be enhanced with media and applications that can be downloaded to your mobile device. Additionally, your course work may involve using applications on these devices. Therefore, it is recommended that students own a mobile device so that they may take advantage of these offerings. These devices will provide access to enhanced learning opportunities, but should not replace more suitable devices for productivity. Devices that satisfy this recommendation are:

Android

- Versions 2.2 or later
- 16GB or higher

iPhone

- Current OS version or one version previous; minimum 16GB
- Original (first generation) and 3G/4G iPhones cannot be supported

iPad

- Current generation or one generation previous; 16GB or higher
- iPad Mini
- 16GB or higher

Microsoft Surface

- Current generation or one generation previous

All Products

Students who choose to use systems or applications other than those listed do so knowing that faculty may be expecting and using the software listed above. It is and will be the student's responsibility to create and distribute correspondence and shared files in a format that can be read by faculty and fellow classmates.

Technology changes rapidly – as a result, these recommendations are subject to change without notice. It is the student's responsibility to continually check the PCC portal for changes to the above recommendations.

Program Specific Requirements

Math Courses

All students taking a math class are required to bring a computer to class meeting the above specifications.

Computer Aided Design Courses

Students are encouraged to have a MAC or PC meeting the specifications listed on the System requirements for AutoCAD 2015 web page.

Media Communications Courses

Students are encouraged to have a MAC or PC meeting the specifications listed on the Creative Cloud System requirements web page.

Nursing Programs on all Campuses

All students accepted into the Nursing Program are required to have a computer to bring to class that meets the above requirements. All Nursing Exams in all nursing courses will be administered electronically.

* Program specific requirements may be required for your degree program.

Guaranteed Transfer Courses

Accounting

ACC 1001 - Fundamentals of Accounting

ACC 1003 - Fundamentals of Accounting Lab

ACC 1011 - Introduction to Financial Accounting

ACC 1012 - Introduction to Managerial Accounting

ACC 1021 - Accounting Principles I

ACC 1025 - Computerized Accounting

ACC 1031 - Income Tax

ACC 1032 - Tax Help Colorado

ACC 1033 - Tax Help Colorado Practicum

ACC 1075-1077 - Special Topics

ACC 2011 - Intermediate Accounting I

ACC 2012 - Intermediate Accounting II

ACC 2016 - Governmental and Not-for-Profit Accounting

ACC 2026 - Cost Accounting

ACC 2075-2077 - Special Topics

ACC 2087 - Cooperative Education

Advanced Academic Achievement

AAA 0050 - Semester Survival

AAA 0070-0077 - Special Topics

AAA 0090 - Academic Achievement Strategies

AAA 0098 - S.T.E.P.S for College Success

AAA 1001 - College 101: The Student Experience

AAA 1009 - Advanced Academic Achievement

AAA 1075-1077 - Special Topics

AAA 2075-2077 - Special Topics

Agriculture

AGE 1102 - Agriculture Economics: GT-SS1

AGE 2105 - Farm and Ranch Management

AGP 1007 - Practical Irrigation Management

AGR 2024 - Integrated Ranch Management

AGR 2160 - World Interdependence-Population and Food: GT-SS3

AGY 1100 - General Crop Production

AGY 2140 - Introductory Soil Science: GT-SC1

ASC 1100 - Animal Sciences

Agriculture Business

AGB 1002 - Foundations of Agri-Business

Agriculture Economics

AGE 2108 - Agricultural Finance

AGE 2110 - Agriculture Marketing

American Sign Language

ASL 1075-1077 - Special Topics

ASL 1101 - Basic Sign Language I

ASL 1102 - Basic Sign Language II

ASL 1125 - Fingerspelling

ASL 1135 - Conversational ASL

ASL 2075-2077 - Special Topics

Anthropology

ANT 1001 - Cultural Anthropology: GT-SS3

ANT 1003 - Introduction to Archaeology: GT-SS3

ANT 1005 - Biological Anthropology with Laboratory: GT-SC1

ANT 1075-1077 - Special Topics

ANT 1101 - Exploring Other Cultures I

ANT 1131 - Cultures of the Southwest

ANT 2075-2077 - Special Topics

ANT 2115 - Native Peoples of North America: GT-SS3

ANT 2230 - Southwest US Archaeology

ANT 2550 - Medical Anthropology: GT-SS3

Architecture Engineering/Construction Management

AEC 2700 - International Building Codes

Art

ART 1002 - Visual Concepts 2-D Design

ART 1005 - Digital Art Foundations I

ART 1075-1077 - Special Topics

ART 1110 - Art Appreciation: GT-AH1

ART 1111 - Art History Ancient to Medieval: GT-AH1

ART 1112 - Art History Renaissance to Modern: GT-AH1

ART 1113 - Art History

ART 1118 - Art Education Methods

ART 1201 - Drawing I

ART 1202 - Drawing II

ART 1203 - Figure Drawing I

ART 1205 - Drawing for the Graphic Novel

ART 1301 - Painting I

ART 1302 - Painting II

ART 1307 - Watercolor I

ART 1308 - Watercolor II

ART 1401 - Digital Photography I

ART 1403 - Digital Darkroom

ART 1501 - Printmaking I

ART 1601 - Sculpture I

ART 1602 - Sculpture II

ART 1604 - Jewelry and Metalwork I

ART 1605 - Jewelry and Metalwork II

ART 1701 - Handbuilt Clay I

ART 1702 - Handbuilt Clay II

ART 1703 - Ceramics I

ART 1704 - Ceramics II Wheel Throwing

ART 2001 - Art Sampler

ART 2003 - Advanced 3-D Design

ART 2075-2077 - Special Topics

ART 2080 - Internship

ART 2081 - Capstone: Studio Art II

ART 2089 - Capstone: Studio Art

ART 2201 - Drawing III

ART 2203 - Advanced Figure Drawing

ART 2301 - Painting III

ART 2401 - Digital Photography II

ART 2405 - Portrait Photography

ART 2407 - Landscape Photography

ART 2408 - Studio Photography

ART 2603 - Jewelry and Metalwork III

ART 2604 - Jewelry and Metalwork Iv

ART 2702 - Ceramic Sculpture

ART 2703 - Ceramics III Molding and Slip Casting

ART 2901 - Business of Visual Art

ART 2902 - Marketing for Visual Arts

ART 2906 - Studio Art

Astronomy

AST 1075-1077 - Special Topics

AST 1110 - Astronomy I With Lab: GT-SC1

AST 1120 - Astronomy II with Lab: GT-SC1

AST 2075-2077 - Special Topics

Automotive Service Technology

ASE 1001 - Auto Shop Orientation

ASE 1002 - Introduction to the Automotive Shop

ASE 1003 - Automotive Maintenance I

ASE 1010 - Brakes I

ASE 1011 - Automotive Brake Service II

ASE 1020 - Basic Auto Electricity

ASE 1022 - Automotive Electrical Safety Systems

ASE 1023 - Starting and Charging System

ASE 1024 - Advanced Ignition System Diagnosis & Repair

ASE 1030 - General Engine Diagnosis

ASE 1032 - Ignition System Diagnosis and Repair

ASE 1034 - Automotive Fuel and Emissions Systems I

ASE 1040 - Suspension and Steering I

ASE 1041 - Suspension and Steering II

ASE 1051 - Automotive Manual Transmission/Transaxles & Clutches I

ASE 1052 - Manual Transmission, Transaxles and Clutches II

ASE 1053 - Automotive Drive Axle Overhaul

ASE 1054 - Manual Transmission/Transaxle Diagnosis and Repair

ASE 1060 - Automotive Engine Repair

ASE 1061 - Automotive Engine Repair & Rebuild

ASE 1062 - Automotive Engine Service & Repair

ASE 1063 - Automotive Component Removal and Replacement

ASE 1065 - Automotive Machining

ASE 1070 - Laboratory Experience I

ASE 1071 - Laboratory Experience II

ASE 1072 - Laboratory Experience III

ASE 1075-1077 - Special Topics

ASE 2010 - Automotive Power and ABS Brake Systems

ASE 2020 - Specialized Electronics Training

ASE 2021 - Auto/Diesel Body Electrical

ASE 2031 - Auto/Diesel Computers

ASE 2033 - Auto Fuel Injection and Emissions Systems II

ASE 2034 - Advanced Automotive Emissions

ASE 2035 - Drivability Diagnosis

ASE 2036 - Advanced Drivability Diagnosis/Repair

ASE 2040 - Suspension and Steering III

ASE 2050 - Automatic Transmission/Transaxle Service

ASE 2051 - Automotive Transmission and Transaxle Repair

ASE 2052 - Advanced Automatic Transmissions/Transaxles O/H

ASE 2053 - Advanced Manual Transmission/Transaxles

ASE 2060 - Advanced Engine Diagnosis

ASE 2064 - Introduction Automotive Heating and Air Conditioning

ASE 2065 - Heating and Air Conditioning Systems

ASE 2075-2077 - Special Topics

ASE 2085 - Independent Study

ASE 2087 - Cooperative Education

ASE 2180 - Internship: Basic Electrical and Engine Performance

ASE 2181 - Internship: Basic Heavy Duty and Power Train

ASE 2182 - Internship: General (Summer)

ASE 2183 - Internship: Advanced Electrical & Engine Performance

ASE 2184 - Internship: Advanced Heavy Duty & Power Train

ASE 2210 - Hybrid Vehicle/Electric Vehicle Safety and Operation

Aviation Technology

AVT 1055 - Unmanned Aircraft Systems Flight Training

AVT 2085 - Independent Study

Barber

BAR 1003 - Introduction to Hair & Scalp

BAR 1007 - Introduction to Shaving, Honing & Stropping

BAR 1008 - Intermediate Shaving, Honing & Stropping

BAR 1010 - Introduction to Hair Coloring

BAR 1011 - Intermediate Hair Coloring

BAR 1020 - Introduction to Hair Cutting

BAR 1021 - Intermediate Hair Cutting

BAR 1030 - Introduction to Hair Styling

BAR 1031 - Intermediate Hair Styling

BAR 1040 - Introduction to Permanent Waves & Chemical Relaxers

BAR 1041 - Intermediate Permanent Waves & Chemical Relaxers

BAR 1066 - Introduction to Facial Massages & Skin Care

BAR 1067 - Intermediate Facial Massage & Skin Care

BAR 2003 - Advanced Hair and Scalp

BAR 2007 - Advanced Shaving, Honing & Stropping

BAR 2011 - Advanced Hair Coloring

BAR 2020 - Advanced Hair Cutting

BAR 2031 - Advanced Hair Styling

BAR 2041 - Advanced Permanent Waves &Chemical Relaxers

BAR 2066 - Advanced Facial Massage & Skin Care

Behavioral Health

BEH 1001 - Mental Health Crisis and Intervention: Preparedness and Emp

BEH 1020 - Cultural Comp in Beh Health

BEH 1030 - Behavioral Health Case Management and Clinical Documentation

BEH 1040 - Child, Adult, and Family Advocacy

BEH 1050 - Peer Support Specialist Training

BEH 1060 - Registered Behavioral Technician Training

BEH 2001 - Mental Health Crisis & Intervention: Advoc, Interv, & Resil

BEH 2030 - Applied Therapeutic Communication Skills

SWK 1100 - Social Welfare and Community Agencies with Service Learning

Biology

BIO 1005 - Science of Biology with Lab: GT-SC1

BIO 1006 - Basic Anatomy and Physiology

BIO 1010 - Biology Foundations: Prep for Anatomy & Physiology and Microbiology

BIO 1016 - Introduction to Human Disease: GT-SC2

BIO 1075-1077 - Special Topics

BIO 1111 - General College Biology I with Lab: GT-SC1

BIO 1112 - General College Biology II with Lab: GT-SC1

BIO 2101 - Human Anatomy and Physiology I with Lab: GT-SC1

BIO 2102 - Human Anatomy and Physiology II with Lab: GT-SC1

BIO 2103 - Advanced Human Anatomy

BIO 2104 - Microbiology with Lab: GT-SC1

BIO 2116 - Human Pathophysiology

BIO 2169 - Nucleic Acid Techniques and Molecular Cloning

Business

BUS 1002 - Entrepreneurial Operations

BUS 1015 - Introduction to Business

BUS 1016 - Personal Finance

BUS 1018 - Business Survival Skills

BUS 1021 - Basic Workplace Skills

BUS 1075-1077 - Special Topics

BUS 1081 - Internship

BUS 2016 - Legal Environment of Business

BUS 2017 - Business Communication & Report Writing

BUS 2026 - Business Statistics

BUS 2075-2077 - Special Topics

BUS 2087 - Cooperative Education

BUS 3020 - Business Law and Ethics

BUS 3040 - Business Ethics and Sustainability

BUS 3060 - Management Technology and Information Systems Processes

BUS 4010 - Applied Business Research and Data Analytics

Business Technologies

BTE 1000 - Computer Keyboarding

BTE 1002 - Keyboarding Applications I

BTE 1003 - Keyboarding Applications II

BTE 1008 - Ten-Key by Touch

BTE 1011 - Keyboarding Speed Building I

BTE 1012 - Keyboarding Speed Building II

BTE 1016 - File Management

BTE 1020 - Introduction to Business Practices

BTE 1025 - Records Management

BTE 1028 - Legal Terminology

BTE 1056 - Business Mathematics with Calculators

BTE 1066 - Business Editing Skills

BTE 1075-1077 - Special Topics

BTE 2002 - Office Simulation I

BTE 2003 - Office Simulation II

BTE 2004 - Keyboarding Applications III

BTE 2011 - Legal Formatting

BTE 2013 - Introduction to Legal Office Procedures

BTE 2025 - Office Management

BTE 2029 - Legal Transcription

BTE 2038 - Legal Office Procedures

BTE 2039 - Billing Systems: PC Law

BTE 2075-2077 - Special Topics

BTE 2087 - Cooperative Education/Internship

Carpentry

CAR 1000 - Introduction to Carpentry

CAR 1001 - Basic Safety

CAR 1002 - Hand and Power Tools

CAR 1003 - Carpentry Basics

CAR 1005 - Job Site Layout and Blueprint Reading

CAR 1021 - Floor Framing

CAR 1022 - Wall Framing

CAR 1023 - Roof Framing

CAR 1030 - Windows and Exterior Doors

CAR 1040 - Stair Construction/Layout

CAR 1070 - Clinical: Construction Lab I

CAR 1071 - Clinical: Construction Lab I

CAR 1075-1077 - Special Topics

CAR 1080 - Internship

CAR 1081 - Internship

CAR 2070 - Clinical: Construction Lab I

CAR 2071 - Clinical: Construction Lab I

CAR 2072 - Clinical: Construction Lab I

CAR 2075-2077 - Special Topics

CAR 2080 - Internship

CAR 2081 - Internship

Chemistry

CHE 1004 - Concepts of Chemistry I

CHE 1005 - Chemistry in Context with Lab: GT-SC1

CHE 1009 - General, Organic, and Biochemistry

CHE 1011 - Introduction to Chemistry I with Lab: GT-SC1

CHE 1012 - Introduction to Chemistry II with Lab: GT-SC1

CHE 1075-1077 - Special Topics

CHE 1111 - General College Chemistry I with Lab: GT-SC1

CHE 1112 - General College Chemistry II with Lab: GT-SC1

CHE 2075-2077 - Special Topics

CHE 2085 - Independent Study

CHE 2111 - Organic Chemistry I with Lab

CHE 2112 - Organic Chemistry II with Lab

Communication

COM 1000 - Workplace Communication

COM 1001 - Employment Strategies

COM 1006 - Violence & Sexual Harassment in the Workplace

COM 1007 - How to Overcome Workplace Negativity

COM 1008 - Dealing with Unacceptable Employee Behavior

COM 1010 - Communicating through Technology

COM 1075-1077 - Special Topics

COM 1105 - Career Communication

COM 1150 - Public Speaking

COM 1250 - Interpersonal Communication: GT-SS3

COM 1300 - Communication and Popular Culture: GT-AH1

COM 2060 - Listening in a Workplace Communication Setting

COM 2061 - Effective Meetings

COM 2062 - Communicating with Impossible People

COM 2063 - Conflict Resolution

COM 2064 - Negotiation

COM 2065 - Effective Presentations

COM 2066 - Decision Making

COM 2068 - Problem Solving

COM 2069 - Leadership

COM 2075-2077 - Special Topics

COM 2080 - Internship

COM 2085 - Independent Study

COM 2089 - Capstone

COM 2220 - Group Communication: GT-SS3

COM 2250 - Organizational Communication

COM 2270 - Gender Communications

COM 2300 - Intercultural Communication: GT-SS3

COM 2400 - Argumentation and Debate

Computer Aided Drafting

CAD 1075-1077 - Special Topics

CAD 1100 - Computer Aided Drafting/2D I

CAD 1101 - Computer Aided Drafting/2D I

CAD 1102 - Computer Aided Drafting/2D II

CAD 1110 - Sketchup

CAD 2075-2077 - Special Topics

CAD 2089 - Capstone

CAD 2220 - Revit Architecture

CAD 2400 - Computer Aided Drafting/3D

CAD 2455 - Solidworks/Mechanical

CAD 2456 - Advanced Solidworks

CAD 2458 - Introduction to Crea Basics

CAD 2459 - Advanced Creo

CAD 2540 - 3DS Max

CAD 2541 - Advanced 3DS Max Character Modeling

CAD 2660 - 3D Printing/Additive Manufacturing

Computer Information Systems

CIS 1002 - Computer Assistive Technology

CIS 1004 - Word Processing with Assistive Technology

CIS 1007 - Voice Recognition: Dragon

CIS 1009 - Management Software and Technical Applications

CIS 1010 - Intro to Computing Technology (Device)

CIS 1015 - Introduction to Computer Information Systems

CIS 1018 - Intro to PC Applications

CIS 1055 - PC Spreadsheet Concepts: (Software Package)

CIS 1067 - Desktop Publishing: (Software)

CIS 1075-1077 - Special Topics

CIS 1078 - Seminar/Workshop

CIS 2018 - Advanced PC Applications

CIS 2020 - Fundamentals of Unix

CIS 2023 - Linux

CIS 2040 - Database Design and Development

CIS 2041 - Advanced Database Design and Development

CIS 2043 - Introduction to Structured Query Language (SQL)

CIS 2068 - Systems Analysis and Design I

CIS 2075-2077 - Special Topics

CIS 2087 - Cooperative Education

CIS 2089 - Capstone

CSC 2034 - C++ Programming

Computer & Networking Technology

CNG 1004 - Intro to TCP/IP

CNG 1020 - A+ Certification Preparation

CNG 1021 - Computer Technician I: A+

CNG 1022 - Computer Technician II: A+

CNG 1024 - Networking I: Network +

CNG 1025 - Networking II: Network +

CNG 1031 - Principles of Information Assurance

CNG 1032 - Network Security Fundamentals

CNG 1033 - Network Security: Fire Walls and Intrusion Detection and Network Security

CNG 1036 - Guide to IT Disaster Recovery

CNG 1042 - Introduction to Cloud Computing Concepts

CNG 1075-1077 - Special Topics

CNG 2012 - Configuring Windows Server

CNG 2024 - Microsoft Windows Wireless Network

CNG 2040 - Virtual Environment Admin

CNG 2042 - Cloud Computing

CNG 2043 - Cloud Security and Cyber Law

CNG 2051 - Anti Virus Concepts

CNG 2054 - Data Encryption

CNG 2056 - Vulnerability Assessment Level 1

CNG 2057 - Network Defense and Counter Measure

CNG 2058 - Digital Forensics

CNG 2060 - Cisco Network Associate I

CNG 2061 - Cisco Network Associate II

CNG 2062 - Cisco Network Associate III

CNG 2063 - Cisco Network Associate IV

CNG 2075-2077 - Special Topics

CNG 3010 - Fundamentals of Cybersecurity

CNG 3020 - Cyber Law Ethics and Policy

CNG 3030 - Methods of Network Analysis

CNG 3036 - Business Continuity and Disaster Recovery

CNG 3040 - Cyber Operations

CNG 3050 - Cyber Investigation and Forensics

CNG 3056 - Vulnerability Assessment II

CNG 4000 - Active Cyber Defense

CNG 4010 - Cyber Threat Intelligence

CNG 4020 - Zero Trust Networks

CNG 4030 - Cyber War

CNG 4054 - Malware Threats and Analysis

CNG 4080 - Internship

Computer Science

CSC 1019 - Introduction to Programming: (Programming Language)

CSC 1020 - Problem Solving with Java

CSC 1029 - Introduction to Secure Coding

CSC 1060 - Computer Science I: (Language)

CSC 1061 - Computer Science II: (Language)

CSC 1075-1077 - Special Topics

CSC 2017 - Advanced Python Programming

CSC 2030 - C Programming: Platform

CSC 2040 - Java Programming

CSC 2041 - Advanced Java Programming

CSC 2045 - Secure Software Development: (Language)

CSC 2046 - Mobile App Development

CSC 2067 - Object-Oriented Analysis and Design

CSC 2075-2077 - Special Topics

CSC 3000 - Advanced Computer Architecture

CSC 3020 - Software Engineering Fundamentals

CSC 3022 - Security Fundamentals and Databases

CSC 3024 - Secure Coding Vulnerabilities I

CSC 3026 - Secure Scripting of Operating Systems

CSC 3028 - Security Libraries in Programming Languages

CSC 4022 - Secure Software Engineering

CSC 4024 - Secure Code Vulnerabilities II

CSC 4026 - Secure Cloud Programming

CSC 4028 - Software Security Testing

Computer Web-Based

CWB 1010 - Complete Web Authoring: (Scripting Language)

CWB 1030 - Web Editing Tools: (Editor)

CWB 1075-1077 - Special Topics

CWB 1085 - Independent Study

CWB 2005 - Client-Side Scripting: (Software)

CWB 2006 - Server-Side Scripting: (Software)

CWB 2008 - Web Application Development: (Development Tool(s))

CWB 2009 - Web Content Management Systems

CWB 2021 - Technology Foundations for E-commerce

CWB 2075-2077 - Special Topics

CWB 2087 - Cooperative Education

Construction Technology

CON 1005 - Construction Technology

CON 1006 - Site Prep through Foundation

CON 1010 - Introduction to Construction, Part 1

CON 1011 - Introduction to Construction, Part 2

CON 1012 - Basic Repairs for Home or Apartment

CON 1020 - Building Materials and Environmental Impact

CON 1038 - Plumbing & Electric Fundamentals

CON 1040 - Introduction to Building Codes & Enforcement

CON 1051 - Introduction to the Construction Process

CON 1057 - National Center for Construction Education & Research Core

CON 1058 - National Center for Construction Education & Research Carpentry I

CON 1062 - National Center for Construction Education & Research Electrical I

CON 1066 - National Center for Construction Education & Research Plumbing I

CON 1075-1077 - Special Topics

CON 2030 - Blueprint Reading

CON 2043 - Project Supervision

CON 2044 - Concrete and Asphalt Technology

CON 2045 - Project Management

CON 2046 - Fundamentals of Crew Leadership

CON 2075-2077 - Special Topics

CON 2080 - Internship

Cosmetology

COS 1003 - Shampoo/Rinses/Conditioners I

COS 1010 - Introduction to Hair Coloring

COS 1011 - Intermediate: Hair Coloring

COS 1020 - Introduction to Hair Cutting

COS 1021 - Intermediate I: Haircutting

COS 1030 - Introduction to Hair Styling

COS 1031 - Intermediate I: Hair Styling

COS 1040 - Introduction to Chemical Texture

COS 1041 - Intermediate I: Chemical Texture

COS 1050 - Laws, Rules and Regulations

COS 1060 - Introduction to Disinfection, Sanitation & Safety

COS 1061 - Intermediate I: Disinfection, Sanitation & Safety

COS 1075-1077 - Special Topics

COS 2003 - Shampoo/Rinses/Conditioners II

COS 2010 - Intermediate II: Hair Coloring

COS 2011 - Advanced Hair Coloring

COS 2020 - Intermediate II: Haircutting

COS 2021 - Advanced Hair Cutting

COS 2030 - Intermediate II: Hair Styling

COS 2031 - Advanced Hair Styling

COS 2040 - Intermediate II: Chemical Texture

COS 2041 - Advanced Chemical Texture

COS 2050 - Management, Ethics, Interpersonal Skills & Salesmanship

COS 2060 - Intermediate II: Disinfection, Sanitation & Safety

COS 2061 - Advanced Disinfection, Sanitation & Safety

COS 2062 - Advanced II: Disinfection, Sanitation & Safety

COS 2075-2077 - Special Topics

Counseling

CSL 2046 - Ethical Practice in Addiction Treatment

CSL 2048 - Advanced Case Conceptualization

CSL 2050 - Motivational Interviewing I

CSL 2051 - Pharmacology I for Addiction Counselors

CSL 2052 - Advanced Pharmacology

CSL 2053 - Cognitive Behavior Therapy

CSL 2054 - Trauma Informed Care

CSL 2055 - Infectious Diseases for Addiction Counselors

CSL 2056 - Co-occurring Disorders

CSL 2057 - Professional Counseling Ethics II

CSL 2058 - Group Counseling Skills

CSL 2059 - Advanced Professional and Ethical Practice

CSL 2061 - Case Conceptualization and Documentation

CSL 2065 - Culturally Informed Treatment

CSL 2068 - Addictions Counseling Skills

CSL 2069 - Principles of Addiction

Criminal Justice

CRJ 1010 - Intro to Criminal Justice: GT-SS3

CRJ 1025 - Policing Systems

CRJ 1027 - Crime Scene Investigation

CRJ 1035 - Judicial Function

CRJ 1045 - Correctional Process

CRJ 1075-1077 - Special Topics

CRJ 2005 - Principles of Criminal Law

CRJ 2009 - Criminal Investigation I

CRJ 2010 - Constitutional Law

CRJ 2030 - Criminology

CRJ 2031 - Introduction to Forensic Science and Criminalistics

CRJ 2035 - Delinquent Behavior

CRJ 2036 - CRJ Research Methods

CRJ 2068 - Criminal Profiling

CRJ 2075-2077 - Special Topics

CRJ 2080 - Cooperative Education/internship

Culinary Arts

CUA 1025 - Introduction to Foods

CUA 1029 - Center of the Plate

CUA 1031 - Starches, Pastas, Casseroles and Grain Products

Dance

DAN 1011 - Modern Dance I

DAN 1021 - Jazz I

DAN 1025 - Dance Appreciation: AH1

DAN 1029 - Introduction to Dance

DAN 1031 - Ballet I

DAN 1041 - Ballroom Dance

DAN 1050 - Dance History: AH1

DAN 1075-1077 - Special Topics

DAN 2075-2077 - Special Topics

Dental Assisting

DEA 2011 - Introduction to Expanded Functions

DEA 2021 - Expanded Functions for the Dental Auxiliary

Dental Hygiene

DEH 1001 - Preclinical Dental Hygiene Lecture

DEH 1002 - Preclinical Dental Hygiene Care

DEH 1003 - Dental Anatomy and Histology

DEH 1004 - Dental Radiology

DEH 1005 - Introduction to Dental Hygiene

DEH 1011 - Dental and Medical Emergencies

DEH 1022 - Periodontics I

DEH 1023 - Head & Neck Anatomy

DEH 1026 - Dental Materials

DEH 1032 - Applied Pharmacology

DEH 1033 - Local Anesthesia

DEH 1034 - Advanced Clinical Skills

DEH 1036 - Clinical Dental Roentgenology

DEH 1038 - Nitrous Oxide/Oxygen Sedation

DEH 1053 - Clinical Theory of Dental Hygiene I

DEH 1070 - Clinical Practice of Dental Hygiene I

DEH 1071 - Clinical Practice of Dental Hygiene I-A

DEH 1075-1077 - Special Topics

DEH 2002 - Applied Nutrition in Dentistry

DEH 2004 - Community Dental Health I

DEH 2013 - General and Oral Pathology

DEH 2021 - Ethics and Practice Management

DEH 2025 - Community Dental Health II: Field Experience

DEH 2042 - Periodontics II

DEH 2059 - Advanced Dental Hygiene Theory

DEH 2066 - National Boards Review

DEH 2068 - Clinical Theory of Dental Hygiene II

DEH 2070 - Clinical Practice of Dental Hygiene II

DEH 2071 - Clinical Practice of Dental Hygiene III

DEH 2075-2077 - Special Topics

DEH 2082 - Periodontics III

DEH 2085 - Clinical Theory of Dental Hygiene III

DEH 3001 - Advanced Careers in Dental Hygiene

DEH 3002 - Applied Dental Hygiene Research Methodologies

DEH 3041 - Clinical Teaching Methodologies

DEH 3043 - Principles of Conflict Resolution in Dentistry

DEH 3055 - Social and Behavioral Determinants of Oral Health

DEH 3087 - Dental Hygiene Leadership and Administration

DEH 4011 - Teaching Methodologies

DEH 4055 - Topics in Dental Public Health

DEH 4071 - Advanced Pharmacology

DEH 4089 - Capstone: Dental Hygiene

Diagnostic Medical Sonography

DMS 1001 - Introduction to Sonography

DMS 1075-1077 - Special Topics

DMS 2001 - Ultrasound Physics I

DMS 2002 - Ultrasound Physics II

DMS 2076-2077 - Special Topics

DMS 2080 - Clinical Observation

DMS 2081 - Clinical Internship I

DMS 2082 - Clinical Internship II

DMS 2083 - Clinical Internship III

DMS 2089 - Ultrasound Capstone

DMS 2100 - Small Parts Ultrasound

DMS 2101 - Abdominal Ultrasound I

DMS 2102 - Abdominal Ultrasound II

DMS 2111 - Ultrasound Scanning Lab

DMS 2201 - OB/GYN Ultrasound I

DMS 2202 - OB/GYN Ultrasound II

DMS 2400 - Vascular Ultrasound

Diesel Power Mechanics

DPM 1001 - Diesel Shop Orientation

DPM 1003 - Diesel Engines I

DPM 1005 - Heavy Duty Powertrains I

DPM 1006 - Diesel Fuel Systems

DPM 1011 - Preventive Maintenance I

DPM 1021 - Hydraulic Systems I

DPM 1022 - Hydraulic Systems II

DPM 1040 - H/D Steering & Suspension I

DPM 1070 - Lab Experience I

DPM 1071 - Lab Experience II

DPM 1072 - Lab Experience III

DPM 1075-1077 - Special Topics

DPM 2003 - Diesel Engines II

DPM 2005 - Heavy Duty Powertrains II

DPM 2006 - Heavy Duty Brakes I

DPM 2007 - Heavy Duty Brakes II

DPM 2022 - H/D Lighting & Instrumentation

DPM 2040 - H/D Steering & Suspension II

DPM 2075-2077 - Special Topics

DPM 2080 - Internship

Drafting and Design Technology

AEC 1075-1077 - Special Topics

AEC 1200 - Print Reading Residential/Commercial

AEC 1231 - Residential Construction Drawing

AEC 1232 - Commercial Construction Drawing

AEC 1520 - Construction Materials and Systems

AEC 2075-2077 - Special Topics

Driving

DRV 1030 - Preparing for CDL

DRV 1032 - Trucks and Trailering

DRV 1034 - Trucking Laws & Regulations

DRV 1036 - Vehicle Inspection & Maintenance

DRV 1038 - Driver Training

DRV 1075-1077 - Special Topics

DRV 2075-2077 - Special Topics

Early Childhood Education

ECE 1011 - Introduction to Early Childhood Education

ECE 1031 - Guidance Strategies for Young Children

ECE 1045 - Introduction to Early Childhood Techniques

ECE 1075-1077 - Special Topics

ECE 1078 - Workshop

ECE 1111 - Infant and Toddler Theory and Practice

ECE 1125 - Intro to Infant/Toddler Lab Techniques

ECE 2051 - Nutrition, Health and Safety

ECE 2075-2077 - Special Topics

ECE 2088 - Practicum: Early Childhood Education

ECE 2101 - Working with Parents, Families, and Community Systems

ECE 2381 - Ece Child Growth and Development

ECE 2401 - Administration of Early Childhood Care and Education Programs

ECE 2411 - Administration: Human Relations for Early Childhood Education

ECE 2601 - The Exceptional Child

ECE 2621 - ECE Curriculum Development: Methods and Techniques

ECE 2631 - Language and Cognition for the Young Child

ECE 2641 - Creativity and the Young Child

ECE 2661 - Science/Math and the Young Child

Economics

ECO 1005 - Introduction to Economics

ECO 1075-1077 - Special Topics

ECO 2001 - Principles of Macroeconomics: GT-SS1

ECO 2002 - Principles of Microeconomics: GT-SS1

ECO 2075-2077 - Special Topics

EDU 2601 - Adult Learning and Teaching

Education

EDU 2088 - Practicum II

EDU 2221 - Effective Teaching

EDU 2341 - Multicultural Education

EDU 2401 - Teaching the Exceptional Learner

EDU 2611 - Teaching, Learning and Technology

EDU 2631 - Teaching and Learning Online

Electricity Industrial/Commercial

EIC 1075 - Special Topics

EIC 1101 - Job Training & Safety

EIC 2075 - Special Topics

Electronics

ELT 1075 - Special Topics

ELT 1206 - Fundamentals of DC/AC

ELT 1207 - Industrial Electronics

ELT 1212 - Advanced DC-AC

ELT 2075 - Special Topics

ELT 2080 - Internship

ELT 2089 - Capstone: Automated Systems

ELT 2252 - Motors and Controls

ELT 2254 - Industrial Wiring

ELT 2357 - Sensors and Transducers

ELT 2358 - Programmable Logic Controllers

ELT 2359 - Advanced Programmable Logic Controllers

Emergency Medical Services

EMS 1015 - Emergency Medical Responder

EMS 1021 - EMT Fundamentals

EMS 1022 - EMT Medical Emergencies

EMS 1023 - EMT Trauma Emergencies

EMS 1024 - EMT Special Considerations

EMS 1026 - EMT Basic Refresher

EMS 1070 - EMT Clinical

EMS 1071 - AEMT Clinical Internship

EMS 1075-1077 - Special Topics

EMS 1078 - EMS Seminar

EMS 1080 - EMT Clinical Internship

EMS 1125 - AEMT Fundamentals

EMS 1127 - AEMT Special Considerations

EMS 1131 - AEMT Pharmacology and IV Therapy

EMS 1132 - EMS Intravenous / Intraosseous Therapy

EMS 1133 - AEMT Medical Emergencies

EMS 1135 - AEMT Trauma Emergencies

EMS 2020 - Paramedic Refresher

EMS 2025 - Fundamentals of Paramedic Practice

EMS 2026 - Fundamentals of Paramedic Practice - Lab

EMS 2027 - Paramedic Special Considerations

EMS 2028 - Paramedic Special Considerations Lab

EMS 2029 - Paramedic Pharmacology

EMS 2030 - Paramedic Pharmacology Lab

EMS 2031 - Paramedic Cardiology

EMS 2032 - Paramedic Cardiology Lab

EMS 2033 - Paramedic Medical Emergencies

EMS 2034 - Paramedic Medical Emergencies Lab

EMS 2035 - Paramedic Trauma Emergencies

EMS 2036 - Paramedic Trauma Emergencies Lab

EMS 2037 - Paramedic Internship Preparatory

EMS 2075 - Special Topics

EMS 2080 - Paramedic Internship I

EMS 2081 - Paramedic Internship II

EMS 2085 - Independent Study

EMS 3010 - Clinical Assessment and De-escalation Techniques

EMS 3011 - Motivational Interviewing for EMS

EMS 3012 - Trauma Informed Care and Assessment

EMS 3030 - Community Advocacy and Outreach

EMS 3031 - Community Assessment

EMS 4025 - Fundamentals of Advanced Paramedic Practice

EMS 4030 - Care and Prevention Development Strategies

EMS 4033 - Advanced Paramedic Medical Care

EMS 4035 - Advanced Paramedic Trauma Care

EMS 4089 - Capstone

Engineering

EGG 1010 - Engineering Graphics I

EGG 1020 - Engingeering Methodologies

EGG 1040 - Engineering Projects

EGG 1075-1077 - Special Topics

EGG 2006 - Engineering Surveying I

EGG 2007 - Engineering Surveying II

EGG 2011 - Engr Mechanics I - Statics

EGG 2012 - Engineering Mechanics II (Dynamics)

EGG 2020 - Thermodynamics

EGG 2071 - Theoretical Mechanics-Statics

EGG 2075-2077 - Special Topics

Engineering Graphics Techology

EGT 2075 - Special Topics

EGT 2200 - Civil/Survey Drafting I

EGT 2202 - Civil/Survey Drafting II

EGT 2305 - Geometric Dimension & Tolerance

English

ENG 0090 - College Composition and Reading

ENG 0093 - Studio D

ENG 0094 - Studio 121

ENG 0095 - Studio 1021 for Multilingual Learners

ENG 1013 - Business English

ENG 1021 - English Composition I: GT-CO1

ENG 1022 - English Composition II:GT-CO2

ENG 1031 - Technical Writing I

ENG 1032 - Technical Writing II

ENG 1075 - Special Topics

ENG 2001 - Composition III: Writing for Public Discourse GT-CO3

ENG 2021 - Creative Writing I

ENG 2022 - Creative Writing II

ENG 2028 - Writing for the Graphic Novel

ENG 2030 - Creative Nonfiction

ENG 2031 - Literary Magazine

ENG 2038 - Writing the Novel 1

ENG 2075 - Special Topics

Entrepreneurship

ENP 1005 - Introduction to Entrepreneurship

ENP 1006 - Entrepreneurship Opportunity Analysis/Feasibility Study

ENP 2005 - Marketing for the Entrepreneur

ENP 2006 - Entrepreneurship Legal Issues

ENP 2007 - Entrepreneurship Financial Topics

ENP 2009 - Entrepreneurship Business Plan

Environmental Science

ENV 1111 - Environmental Science with Lab: GT-SC1

ENV 2075 - Special Topics

Esthetician

EST 1001 - Steril/Sani & Safety

EST 1010 - Introduction to Skin Care

EST 1011 - Intermediate Skin Care

EST 1060 - Introduction to Disinfection, Sanitation & Safety

EST 1061 - Intermediate Disinfection, Sanitation & Safety

EST 2010 - Advanced Skin Care

EST 2011 - Make-up for Skin Care Professionals

EST 2012 - Hair Removal

EST 2075 - Special Topics

Ethics

ETH 2000 - Introduction to Ethnic Studies: GT-SS3

ETH 2024 - Introduction to Chicano Studies

ETH 2075 - Special Topics

Facilities Maintenance Techology

FMT 1101 - Housekeeping

FMT 1103 - Cleaning Chemicals

FMT 1201 - Facilities Maintenance - Electricity

FMT 1801 - Job Survival Skills

FMT 1804 - Custodian Personnel Management

Fire Science Technology

FST 1000 - Firefighter I

FST 1001 - Firefighter II

FST 1002 - Principles/Emergency Services

FST 1003 - Fire Behavior & Combustion

FST 1005 - Building Construction for Fire Protection

FST 1006 - Fire Prevention

FST 1007 - Hazardous Materials Operations (Level I)

FST 1008 - Firefighter Professional Preparation

FST 1009 - Occupational Safety & Health

FST 1010 - Job Placement and Assessment

FST 1021 - Technical Rope Rescue

FST 1026 - Vehicle Extrication Awareness Level

FST 1027 - Vehicle Extrication Operations Level

FST 1028 - Vehicle Extrication Technician Level

FST 1032 - Structural Collapse

FST 1033 - Trench Rescue

FST 1034 - Confined Space Rescue

FST 1035 - Ice Water Rescue

FST 1036 - Swift Water Rescue

FST 1050 - Introduction to Fire Prevention Education

FST 1051 - Driver-Operator

FST 1060 - Candidate Physical Abilities Test Prep

FST 1075 - Special Topics

FST 2001 - Instructional Methodology

FST 2002 - Strategy and Tactics

FST 2003 - Fire Hydraulics & Water Supply

FST 2004 - Principles of Code Enforcement

FST 2005 - Fire Investigation I

FST 2006 - Fire Co Superv and Leadership

FST 2007 - Firefighting Strategy and Tactics II

FST 2008 - Fire Plans Review and Acceptance Testing

FST 2009 - Fire Protection Systems

FST 2051 - Legal Aspects of Fire Service

FST 2052 - Fire Investigation II

FST 2053 - NIMS

FST 2054 - Hazardous Materials Technician Level

FST 2055 - Fire Service Management

FST 2057 - Fire Department Administration

FST 2075 - Special Topics

Fire Science Wildland

FSW 1000 - S-190 Introduction to Wildland Fire Behavior

FSW 1001 - S-130 Firefighting Training

FSW 1002 - S-131 Firefighter Type I

FSW 1003 - D-110 Dispatch Recorder with Introduction to Ross

FSW 1004 - I-100 Introduction to ICS

FSW 1005 - L-180 Human Factors on the Fire Lane

FSW 1043 - S-212 Wildfire Chain Saws

FSW 1053 - S-290 Intermediate Wildland Fire Behavior

FSW 1075-1077 - Special Topics

FSW 2075-2077 - Special Topics

Floral Design

FLD 1000 - Introductory Floral Design

French

FRE 2011 - French Language III: GT-AH4

FRE 2012 - French Language IV: GT-AH4

Geography

GEO 1005 - World Regional Geography: GT-SS2

GEO 1006 - Human Geography: GT-SS2

GEO 1011 - Physical Geography: Landforms with Lab: GT-SC1

GEO 1012 - Physical Geography: Weather and Climate with Lab: GT-SC1

GEO 1075 - Special Topics

GEO 2075 - Special Topics

Geology

GEY 1075 - Special Topics

GEY 1111 - Physical Geology with Lab: GT-SC1

GEY 1112 - Historical Geology with Lab: GT: SC1

GEY 1135 - Environmental Geology with Lab: GT-SC1

GEY 2075 - Special Topics

German

GER 2011 - German Language III: GT-AH4

GER 2012 - German Language IV: GT-AH4

Health Information Management

HIM 3000 - Data Structure and Design in HIM – Domain I

HIM 3005 - Health Record Compliance and Data Integrity – Domain I

HIM 3010 - Health Information Governance – Domain I

HIM 3015 - Health Privacy and Security – Domain II

HIM 3020 - Health Information Systems – Domain III

HIM 3025 - Data Analytics and Visualization in Healthcare – Domain III

HIM 3030 - Data Use and Management in Healthcare – Domain III

HIM 4000 - Revenue Cycle Management – Domain IV

HIM 4005 - Health Law and Compliance – Domain V

HIM 4010 - Management and Leadership in Healthcare – Domain VI

HIM 4015 - Human Resources and Financial Mgmt in Healthcare – Domain VI

HIM 4020 - Org Ldshp for DEI in Healthcare-Domain VI

HIM 4089 - HIM Capstone Course

Health Information Technology

HIT 1001 - Health Information Management Science

HIT 1002 - Medical Vocabulary for Documentation

HIT 1005 - Principles of Healthcare Reimbursement

HIT 1011 - Health Data Management and Information Systems

HIT 1012 - Legal Aspects for Health Records

HIT 1020 - Working with Health IT Systems

HIT 1021 - Networking and Health Info

HIT 1022 - Workflow Fund of Healthcare

HIT 1023 - Configuring EHRS

HIT 1024 - Public Health IT

HIT 1050 - Healthcare Delivery Systems

HIT 1075 - Special Topics

HIT 1088 - Health Information Practicum I

HIT 1089 - Practicum

HIT 2020 - ICD Coding I

HIT 2022 - Quality Management

HIT 2025 - Health Information Management

HIT 2041 - CPT Coding Basic Principles

HIT 2052 - ICD Coding II for Certification

HIT 2061 - Healthcare Software

HIT 2064 - Data Visualization

HIT 2065 - Data Analytics Applications

HIT 2068 - Certification Test Preparation

HIT 2075 - Special Topics

HIT 2088 - HIT Capstone Course

HIT 2089 - HIT Capstone Course

Health & Wellness

HWE 1001 - Community First Aid and CPR

HWE 1050 - Human Nutrition

HWE 1060 - Weight Loss

HWE 1062 - Health and Wellness

HWE 1075 - Special Topics

HWE 2075 - Special Topics

Health Professional

HPR 1000 - Introduction to Health

HPR 1007 - Computers in Healthcare

HPR 1008 - Law & Ethics for Health Professions

HPR 1010 - Dietary Nutrition

HPR 1011 - CPR for Professionals: Professional Rescuer

HPR 1017 - Anatomical Kinesiology

HPR 1032 - Disease Process and Treatment

HPR 1038 - Introduction to Medical Terminology

HPR 1039 - Medical Terminology

HPR 1040 - Comprehensive Medical Terminology

HPR 1045 - Medical Record Terminology

HPR 1050 - Basic EKG Interpretation

HPR 1075 - Special Topics

HPR 1080 - Internship

HPR 2011 - ACLS

HPR 2012 - ACLS Instructor Course

HPR 2013 - Pediatric Advanced Life Support

HPR 2014 - Pediatric Advanced Life Support Renewal

HPR 2015 - Pediatric Advanced Life Support Instructor

HPR 2020 - Advanced Phlebotomy

HPR 2050 - Advanced ECG Interpretations

HPR 2075 - Special Topics

HPR 3001 - Communications in Health Care

HPR 3010 - Quality Improvement in Health Care

HPR 4003 - Critical Review of Healthcare Research

HPR 4011 - Leadership and Management in Health Professions

HPR 4038 - Pedagogy in Health Professions

HPR 4089 - Inter-Professional Capstone

Heavy Equipment

HEQ 1050 - Basic Principles of Engine Operation and Drive Train

HEQ 2020 - Motor Grader I

HEQ 2021 - Motor Grader II

HEQ 2025 - Backhoe I

HEQ 2026 - Backhoe II

HEQ 2030 - Hydraulic Excavator

HEQ 2040 - Basic Bulldozer I

HEQ 2041 - Bulldozer II

HEQ 2046 - Front End Loader II

HEQ 2075 - Special Topics

History

HIS 1075-1077 - Special Topics

HIS 1110 - The World: Antiquity-1500: GT-HI1

HIS 1120 - The World: 1500-present: GT-HI1

HIS 1210 - United States History to Reconstruction: GT-HI1

HIS 1220 - United States History Since the Civil War: GT-HI1

HIS 1310 - Western Civilization: Antiquity-1650: GT-HI1

HIS 1320 - Western Civ: 1650-present: GT-HI1

HIS 2015 - 20th Century World History: GT-HI1

HIS 2075-2077 - Special Topics

HIS 2080 - Internship

HIS 2115 - American Indian History: GT-HI1

HIS 2135 - Colorado History: GT-HI1

HIS 2300 - The Middle Ages:GT-HI1

Horticulture

HLT 1000 - Horticulture Science

HLT 1060 - Greenhouse Management

HLT 1075 - Special Topics

HLT 1101 - Introduction to Horticulture

HLT 2008 - Pesticide Safety and Use

HLT 2021 - Woody Landscape Plants I

HLT 2022 - Woody Plants: Shrubs & Vines

HLT 2023 - Annuals, Bulbs, and Grasses

HLT 2075 - Special Topics

Hospitality Studies

HOS 1005 - Introduction to Management in the Hospitality Industry

HOS 1010 - Introduction to Hospitality

HOS 1022 - Travel Destinations in the Western Hemisphere

HOS 1023 - Travel Destinations in the Eastern Hemisphere

HOS 1031 - Planning for Special Events

HOS 1041 - Convention Management

HOS 1075-1077 - Special Topics

HOS 2007 - Tour Management

HOS 2075 - Special Topics

Humanities

HUM 1003 - Introduction to Film Art: GT-AH2

HUM 1015 - World Mythology: GT-AH2

HUM 1021 - Humanities: Early Civilization: GT-AH2

HUM 1022 - Humanities: Medieval - Modern: GT-AH2

HUM 1023 - Humanities: Modern World: GT-AH2

HUM 1031 - The Arts and Cultures of Mexico

HUM 1075 - Special Topics

HUM 1075-1077 - Special Topics

HUM 2036 - North American Indian Arts

HUM 2037 - Hispanic Arts of the American Southwest

HUM 2038 - Sacred Images, Sacred Spaces: Southwestern US

HUM 2066 - Documentary Film: from Traditional to Experimental

Industrial Technology Maintenance

ENY 1000 - Introduction to Energy Technologies

ENY 1075-1077 - Special Topics

ENY 1621 - Solar Photovoltaic Components

ENY 1632 - NABCEP Entry Level Prep Class

ENY 1655 - Solar Photovoltaic Field Lab Experience

ENY 1702 - Building Energy Audit Tech

IMA 1400 - Basic Fluid Power

IMA 1500 - Pump, Seals, Rotating Equipment

Jewelry Repair and Design

JRD 1002 - Beginning Stone Setting I

JRD 1011 - Jewelry Shop I

JRD 1012 - Jewelry Shop II

JRD 2015 - Jewelry Design I

JRD 2016 - Jewelry Design II

JRD 2018 - Jewelry Presentation & Photography

JRD 2021 - Jewelry Portfolio

JRD 2075 - Special Topics

JRD 2080 - Internship

Journalism

JOU 1005 - Introduction to Mass Media: GT SS3

JOU 1006 - Media News and Reporting

JOU 1075 - Special Topics

JOU 2006 - Intermediate Newswriting and Editing

JOU 2025 - New Media

JOU 2075 - Special Topics

Law Enforcement Academy

LEA 1001 - Basic Police Academy I

LEA 1002 - Basic Police Academy II

LEA 1003 - Basic Law Enforcement Academy III

LEA 1005 - Basic Law

LEA 1006 - Arrest Control Techniques

LEA 1007 - Law Enforcement Driving

LEA 1008 - Firearms

LEA 1018 - Police Report Writing

LEA 1075 - Special Topics

Library Technician

LTN 1001 - Introduction to Library Services

LTN 1010 - Selection and Acquisitions

LTN 1015 - Library Circulation

LTN 2005 - Introduction to Cataloging & Classification

LTN 2010 - Reference Materials

LTN 2020 - Library/Media Center Management & Public Relations

LTN 2075 - Special Topics

Literature

LIT 1015 - Introduction to Literature I: GT-AH2

LIT 1026 - Study of Poetry

LIT 1075 - Special Topics

LIT 2001 - World Literature to 1600: GT-AH2

LIT 2002 - World Literature After 1600: GT-AH2

LIT 2005 - Race. Ethnicity, and Culture in U.S. Literature: GT-AH2

LIT 2011 - American Literature to Civil War: GT-AH2

LIT 2012 - American Literature After Civil War: GT-AH2

LIT 2025 - Introduction to Shakespeare: GT-AH2

LIT 2046 - Literature of Women: GT-AH2

LIT 2055 - Children's Literature

LIT 2057 - Literature and Film

LIT 2059 - Survey of African American Literature: GT-AH2

LIT 2068 - Celtic Literature: GT-AH2

LIT 2069 - Popular Literature and Culture

LIT 2075 - Special Topics

Machining

MAC 1000 - Machine Shop Safety

MAC 1002 - Print Reading for Machinists

MAC 1005 - Introduction to Machining Technology

MAC 1030 - Conventional Lathe Operations

MAC 1031 - Milling Machines & Operations

MAC 1041 - Advanced Machining Operations

MAC 1075 - Special Topics

MAC 2003 - Introduction to CNC Operations

MAC 2008 - CNC Operations II

MAC 2041 - CAD CAM 2D Lab

MAC 2043 - Mastercam

MAC 2050 - Advanced Inspection Techniques

MAC 2056 - Industrial Components

MAC 2065 - Mechanical Components

MAC 2075 - Special Topics

Management

MAN 1002 - Business Ethics and Values

MAN 1003 - Managing Business Change

MAN 1004 - Managing Workplace Stress

MAN 1005 - Logistics Management

MAN 1016 - Principles of Supervision

MAN 1017 - Time Management

MAN 1025 - Team Building

MAN 1026 - Total Quality Management

MAN 1028 - Human Relations in Organizations

MAN 1075-1077 - Special Topics

MAN 2000 - Human Resource Management I

MAN 2001 - Human Resource Management II

MAN 2015 - Organizational Behavior

MAN 2016 - Small Business Management

MAN 2024 - Leadership

MAN 2025 - Managerial Finance

MAN 2026 - Principles of Management

MAN 2041 - Project Management in Organizations

MAN 2075-2077 - Special Topics

MAN 2089 - Capstone: Management Information Systems

MAN 3030 - Contemporary Management

MAN 3050 - Innovation and Change Management

MAN 3060 - Operations Management

MAN 4030 - Organizational Leadership

MAN 4040 - Strategic Management

MAN 4060 - Human Resources and Supervisory Management

Manufacturing Technology

MTE 1075-1077 - Special Topics

MTE 1100 - Print Reading Manufacturing

MTE 1101 - Introduction to Manufacturing

MTE 1102 - Safety Manufacturing Environment

MTE 1110 - Applied Communication and Teamwork in Industry

MTE 1200 - Manufacturing Processes

MTE 1220 - Lean Manufacturing Prac/Proc

MTE 2089 - Manufacturing Capstone

MTE 2320 - Fluid Power Control

MTE 2330 - Strength of Materials

Marketing

MAR 1058 - Basic Customer Service

MAR 1060 - Customer Service

MAR 1075 - Special Topics

MAR 2016 - Principles of Marketing

MAR 2020 - Principles of Advertising

MAR 2075 - Special Topics

MAR 3040 - Business Practical Marketing

MAR 4010 - Digital Marketing and Analytics

Math

MAT 0200 - Algebraic Literacy Lab

MAT 0250 - Quantitative Literacy

MAT 0300 - Algebraic Literacy

MAT 1075 - Special Topics

MAT 1120 - Math for Clinical Calculations

MAT 1140 - Career Math

MAT 1150 - Technical Mathematics

MAT 1160 - Financial Mathematics

MAT 1220 - Integrated Math I: GT-MA1

MAT 1230 - Integrated Math II: MA1

MAT 1240 - Mathematics for the Liberal Arts: GT-MA1

MAT 1260 - Introduction to Statistics: GT-MA1

MAT 1320 - Finite Mathematics: GT-MA1

MAT 1340 - College Algebra: GT-MA1

MAT 1400 - Survey of Calculus: GT-MA1

MAT 1420 - College Trigonometry: GT-MA1

MAT 2075 - Special Topics

MAT 2410 - Calculus I: GT-MA1

MAT 2420 - Calculus II: GT-MA1

MAT 2430 - Calculus III: GT-MA1

MAT 2431 - Calculus III with Engineering Applications: GT-MA1

MAT 2520 - Discrete Mathematics: GT-MA1

MAT 2540 - Linear Algebra

MAT 2560 - Differential Equations: GT-MA1

MAT 2561 - Differential Equations with Engineering Applications: GT-MA1

Medical Assistant Professional

MAP 1010 - Medical Office Administration

MAP 1020 - Medical Office Financial Management

MAP 1050 - Pharmacology for Medical Assistants

MAP 1083 - Medical Assistant Internship

MAP 2038 - Medical Assisting Laboratory

MAP 2040 - Medical Assisting Clinical Skills

MAP 2069 - Review for Medical Assistant National Exam

Medical Office Technology

MOT 1025 - Basic Medical Sciences I

MOT 1026 - Basic Medical Sciences II

MOT 1027 - Basic Medical Sciences III

Meteorology

MET 1050 - General Meteorology with Lab: GT-SC1

Multimedia and Graphic Design

MGD 1001 - Introduction to Computer Graphics

MGD 1002 - Introduction to Multimedia

MGD 1006 - Creativity and Visual Thinking

MGD 1007 - History of Design

MGD 1011 - Adobe Photoshop I

MGD 1012 - Adobe Illustrator I

MGD 1013 - Adobe InDesign

MGD 1015 - Typography & Layout

MGD 1017 - Introduction to Visual Communications

MGD 1033 - Graphic Design I

MGD 1037 - Illustration I

MGD 1041 - Web Design I

MGD 1043 - Motion Graphic Design I: (Software)

MGD 1063 - Sound Design I

MGD 1064 - Digital Video Editing I

MGD 1067 - Game Design I

MGD 1075-1077 - Special Topics

MGD 2002 - Point of Purchase Packaging Design

MGD 2011 - Adobe Photoshop II

MGD 2021 - Computer Graphics I

MGD 2022 - Computer Graphics II

MGD 2027 - Marcomm Practices

MGD 2033 - Graphic Design II

MGD 2041 - Web Design II

MGD 2042 - Web Architecture: Open Source Design

MGD 2043 - Web Motion Graphic Design II

MGD 2056 - Graphic Design Production

MGD 2064 - Digital Video Editing II

MGD 2068 - Business for Creatives

MGD 2075-2077 - Special Topics

MGD 2080 - Internship

MGD 2089 - Capstone

Music

MUS 1000 - Music Theory Fundamentals I

MUS 1001 - Music Theory Fundamentals II

MUS 1012 - Ear Training/Sight-singing I Lab

MUS 1020 - Music Appreciation: GT-AH1

MUS 1021 - Music History Medieval Thru Classical Period: GT-AH1

MUS 1022 - Music History Early Romantic Period to the Present: GT-AH1

MUS 1025 - History of Jazz: GT-AH1

MUS 1031 - Music Class I: (specify)

MUS 1032 - Music Class II: (specify)

MUS 1041 - Private Instruction (Specify)

MUS 1042 - Private Instruction (Specify)

MUS 1043 - Private Instruction (Specify)

MUS 1044 - Private Instruction (Specify)

MUS 1051 - Ensemble I

MUS 1052 - Ensemble II

MUS 1053 - Ensemble III

MUS 1054 - Ensemble IV

MUS 1075-1077 - Special Topics

MUS 2041 - Private Instruction (Specify)

MUS 2075 - Special Topics

Nail Technician

NAT 1008 - Introduction to Manicures, Pedicures, and Artificial Nails

NAT 1010 - Introduction to Nail Care

NAT 1011 - Intermediate I Nail Care

NAT 1058 - Intermediate Manicuring, Pedicures, and Artificial Nails

NAT 1059 - Intermediate Manicuring/Pedicures/Artificial Nails II

NAT 2008 - Advanced Manicuring/Pedicures/Artificial Nails

NAT 2010 - Advanced Nail Care

NAT 2011 - Application of Nail Enhancements

NAT 2075 - Special Topics

Natural Resources

NRE 1100 - Foundations of Forestry

NRE 1110 - Forestry Field Techniques

NRE 2028 - Forest Harvesting

Nursing

NUR 1001 - Pharmacology Calculations

NUR 1002 - Alterations in Adult Health I

NUR 1003 - Basic Health Assessment for the Practical Nurse

NUR 1004 - Alterations in Adult Health II

NUR 1005 - Practical Nursing Arts and Skills

NUR 1006 - Medical Surgical Nursing Concepts

NUR 1009 - Fundamentals of Nursing

NUR 1010 - Pharmacology for Practical Nursing

NUR 1011 - Advancement into Practical Nursing

NUR 1012 - Basic Concepts of Pharmacology

NUR 1013 - Basic Concepts of Maternal-Newborn Nursing

NUR 1014 - Basic Concepts of Pediatric Nursing

NUR 1015 - Basic Concepts of Mental Health Nursing

NUR 1016 - Basic Concepts of Geriatric Nursing

NUR 1050 - Maternal-Child Nursing

NUR 1068 - Introduction to Professional Nursing Practice for Paramedics

NUR 1069 - Transition into Practical Nursing

NUR 1070 - Clinical I

NUR 1071 - Clinical II

NUR 1072 - Clinical III

NUR 1073 - Clinical III

NUR 1075-1077 - Special Topics

NUR 2002 - Transition from LPN to Professional Nursing

NUR 2006 - Advanced Concepts of Medical-Surgical Nursing I

NUR 2011 - Psychiatric-Mental Health Nursing

NUR 2012 - Pharmacology II

NUR 2016 - Advanced Concepts of Medical Surgical Nursing II

NUR 2030 - Transition to Professional Nursing Practice

NUR 2054 - RN Licensing Exam Preparation

NUR 2075-2077 - Special Topics

NUR 3001 - Integration into Baccalaureate Nursing Practice

NUR 3002 - Trends in Nursing Practice

NUR 3003 - Nursing Research / Evidence Based Practice

NUR 3004 - Informatics / Healthcare Technology

NUR 3005 - Emergency Preparedness

NUR 3006 - Gerontology Nursing

NUR 3007 - Behavioral Health

NUR 4008 - Legal and Ethical Issues Related to Professional Nursing Practice

NUR 4009 - Leadership in the Nursing Profession

NUR 4010 - Community Health Nursing/Practicum

NUR 4011 - Senior Seminar

Nursing Assistant

NUA 1001 - Nurse Aide Health Care Skills

NUA 1070 - Nurse Aid Clinical Experience

NUA 1075 - Special Topics

Occupational Safety Technician

OSH 1130 - Hazardous Materials

OSH 1310 - 10-hr Construction Industry Standards

OSH 2110 - Safety Program Management

Occupational Therapy Assistant

OTA 1000 - Introduction to Occupational Therapy

OTA 1005 - Occupational Disruption and Activity Analysis

OTA 1006 - Basic Occupational Therapy Frames of Reference and Documentation

OTA 1021 - Assessing Movement Through Occupation

OTA 1022 - Origins of Occupation and Performance from the Neonate to Adulthood

OTA 1025 - Basic Occupational Therapy Application to Mental Health

OTA 1031 - Geriatric Concerns, Diseases and Treatment Techniques

OTA 1075 - Special Topics

OTA 1081 - Internship

OTA 1082 - Internship

OTA 1083 - Internship

OTA 2016 - OT Application to Neurological Impairments

OTA 2017 - Occupational Therapy Rehabilitation Techniques

OTA 2018 - Occupational Therapy Application to Adult Physical Disabilities

OTA 2021 - Pediatric Concerns, Diseases, Disabilities, and Treatment

OTA 2035 - Professional Management for the OTA

OTA 2075 - Special Topics

OTA 2078 - OTA Seminar

OTA 2080 - Internship

OTA 2081 - Internship

OTA 2085 - Independent Study

Outdoor Studies

OUT 1125 - Mountain Orientation

Paralegal

PAR 1115 - Introduction to Law

PAR 1116 - Torts

PAR 1117 - Family Law

PAR 1118 - Contracts

PAR 1125 - Property Law

PAR 2080 - Internship

PAR 2201 - Civil Litigation

PAR 2208 - Probate and Estates

PAR 2211 - Legal Research

PAR 2212 - Legal Writing

Petroleum Technology

PET 1700 - Oil and Gas Production I

PET 2700 - Oil and Gas Production II

Pharmacy Technician

PHT 1011 - Introduction to Pharmacy

PHT 1012 - Pharmacy Law and Ethics

PHT 1013 - Communication and Professionalism for Pharmacy Technicians

PHT 1014 - Computer Skills for Pharmacy Technicians

PHT 1015 - Pharmacology I

PHT 1016 - Pharmacology II

PHT 1035 - Pharmaceutical Calculations and Compounding Techniques

PHT 1040 - Institutional Pharmacy

PHT 1041 - Community Pharmacy

PHT 1070 - Clinical:

PHT 1071 - Clinical:

PHT 2050 - Sterile Compounding & Aseptic Technique

PHT 2075-2077 - Special Topics

Philosophy

PHI 1011 - Introduction to Philosophy: GT-AH3

PHI 1012 - Ethics: GT-AH3

PHI 1013 - Logic: GT-AH3

PHI 1014 - Comparative Religions: GT-AH3

PHI 1015 - World Religions-West: GT-AH3

PHI 2005 - Business Ethics: GT-AH3

PHI 2014 - Philosophy of Religion: GT-AH3

PHI 2018 - Environmental Ethics: GT-AH3

PHI 2020 - Philosophy of Death and Dying: GT-AH3

PHI 2075 - Special Topics

Physical Therapist Assistant

PTA 1010 - Basic Patient Care in Physical Therapy

PTA 1015 - Principles and Practices of Physical Therapy

PTA 1020 - Modalities in Physical Therapy

PTA 1024 - Rehab Principles of Medical I

PTA 1031 - Professional Communications I

PTA 1034 - Rehabilitation Principles of Medical Management II

PTA 1035 - Principles of Electrical Stimulation

PTA 1040 - Clinical Kinesiology

PTA 1041 - Professional Communications II

PTA 1075-1077 - Special Topics

PTA 2005 - Psychosocial Issues in Health Care

PTA 2030 - Orthopedic Assessment and Management

PTA 2040 - Neurologic Assessment and Management Techniques

PTA 2051 - Professional Communications III

PTA 2075 - Special Topics

PTA 2078 - PTA Seminar

PTA 2080 - Internship I

PTA 2081 - PTA Internship II

PTA 2082 - PTA Internship III

Physics

PHY 1075-1077 - Special Topics

PHY 1105 - Conceptual Physics with Lab: GT-SC1

PHY 1107 - Energy Science & Technology with Lab: GT-SC1

PHY 1111 - Physics: Algebra-Based I with Lab: GT-SC1

PHY 1112 - Physics: Algebra-Based II with Lab: GT-SC1

PHY 2075 - Special Topics

PHY 2111 - Physics: Calculus Based I with Lab: GT-SC1

PHY 2112 - Physics: Calculus-Based II with Lab: GT-SC1

PHY 2113 - Physics III: Calculus Based Modern Physics

Political Science

PSC 1011 - American Government: GT-SS1

PSC 1025 - American State and Local Government: GT-SS1

PSC 1075 - Special Topics

PSC 2020 - Introduction to Political Science: GT-SS1

PSC 2075 - Special Topics

Printing Technology

PRT 1001 - Introduction to Printing Technology

PRT 1012 - Beginning Offset Press

PRT 1013 - Intermediate Offset Press

PRT 1014 - Paper Management and Estimating

Process Technology

PRO 1000 - Introduction to Process Technology

PRO 1100 - Safety, Health and Environment

Psychiatric Technician

PTE 1010 - Intro to Behavioral Health Care and Wellness

PTE 1011 - Essential Concepts of Care

PTE 1015 - Core Concepts for Advanced Psychiatric Technician

PTE 1017 - Theoretical Concepts of Psychiatric Care II

PTE 1018 - Psychiatric Management Principles

PTE 1020 - Application of Behavioral Health Care & Wellness

PTE 1070 - Clinical Concepts of Psychiatric Care I

PTE 1071 - Clinical Concepts of Psychiatric Care II

PTE 1072 - Psychiatric Management Clinical

PTE 2075 - Special Topics

Psychology

PSY 1001 - General Psychology I: GT-SS3

PSY 1002 - General Psychology II: GT-SS3

PSY 1005 - Psychology of Workplace Relationships

PSY 1010 - Career Development

PSY 1017 - Parenting

PSY 1075-1077 - Special Topics

PSY 2000 - Research Methodology

PSY 2080 - Internship

PSY 2105 - Psychology of Gender: GT-SS3

PSY 2107 - Human Sexuality: GT-SS3

PSY 2112 - Introduction to Addictive Behavior

PSY 2220 - Dynamics of Racism and Prejudice

PSY 2221 - Social Psychology: GT-SS3

PSY 2222 - Psychology of Death and Dying: GT-SS3

PSY 2331 - Positive Psychology: GT-SS3

PSY 2333 - Health Psychology: GT-SS3

PSY 2440 - Human Growth and Development: GT-SS3

PSY 2441 - Child Development: GT-SS3

PSY 2442 - Child and Adolescent Psychology

PSY 2443 - Adolescent and Adult Psychology

PSY 2444 - Educational Psychology

PSY 2551 - Child Abuse and Neglect

PSY 2552 - Abnormal Psychology: GT-SS3

PSY 2770 - Introduction to Forensic Psychology

PSY 2771 - Psychology of Personality: GT-SS3

PSY 2772 - Stress Reduction with Biofeedback

PSY 2773 - Organizational Psychology

PSY 2774 - Psychology of Leadership

Public Service

PSV 2030 - Introduction to Civic Leadership

Radio and Television

RTV 1000 - Introduction to Electronic Media

RTV 1002 - Beginning Television

RTV 1003 - Writing for TV and Radio

RTV 1005 - Basic Video Production

RTV 1006 - Principles of Audio

RTV 1075 - Special Topics

RTV 1082 - Internship Radio STA/Audio Production

RTV 1083 - Internship Tv Studio/Video Production Co.

RTV 2002 - Advanced Television Production

RTV 2010 - Video Field Production

RTV 2075 - Special Topics

RTV 2202 - Advanced Television Studio Production

Radiologic Technology

RTE 1001 - Introduction to Radiography

RTE 1011 - Radiographic Patient Care

RTE 1021 - Radiologic Procedures I

RTE 1022 - Radiologic Procedures II

RTE 1031 - Radiographic Pathology/Imaging Evaluation

RTE 1032 - Radiographic Pathology and Image Evaluation II

RTE 1041 - Radiographic Equipment and Imaging I

RTE 1042 - Radiographic Equipment and Imaging II

RTE 1081 - Internship: Radiographic I

RTE 1082 - Internship: Radiographic II

RTE 1083 - Internship: Radiographic III

RTE 2021 - Advanced Medical Imaging

RTE 2031 - Radiation Biology/Protection

RTE 2055 - Multiplanar Sectional Imaging

RTE 2056 - Bone Densitometry

RTE 2075 - Special Topics

RTE 2081 - Radiographic Clinical Internship IV

RTE 2082 - Radiographic Clinical Internship V

RTE 2084 - Internship

RTE 2086 - Advanced Clinical Speciality II

RTE 2089 - Capstone

RTE 2091 - Professional Development

RTE 3011 - Sectional Anatomy for Medical Imaging

RTE 3012 - IV Certification for Contrast Medium

RTE 3021 - Theory and Application of MR Imaging I

RTE 3031 - MRI Protocols and Procedures

RTE 3041 - Theory and Application of CT Imaging

RTE 3051 - CT Protocols and Procedures

RTE 3081 - Internship: MRI I

RTE 3082 - Internship: CT I

RTE 4021 - Theory and Application of MR Imaging II

RTE 4031 - Advanced MRI Protocols and Procedures

RTE 4051 - Advanced CT Protocols and Procedures

RTE 4061 - Leadership in Medical Imaging

RTE 4062 - Teaching Methodologies in Medical Imaging Education

RTE 4081 - Internship: MRI II

RTE 4082 - Internship: CT II

Range Management

RAM 2005 - Range Management

Real Estate

REE 1075 - Special Topics

REE 2001 - Real Estate Brokers I

REE 2002 - Real Estate Brokers II

REE 2075 - Special Topics

Respiratory Care

RCA 1005 - Introduction to Respiratory Care

RCA 1010 - Pharmacology of Respiratory Therapy

RCA 1032 - Basic Techniques in Respiratory Care II

RCA 1041 - Basic Techniques in Respiratory Care

RCA 1051 - Cardiopulmonary Anatomy and Physiology

RCA 1053 - Cardiopulmonary Disease and Pathology

RCA 1056 - Application of Science in Respiratory Care

RCA 1065 - Pharmacology of Cardiopulmonary Care

RCA 1066 - Monitoring and Diagnostics of the Cardiopulmonary Patient

RCA 2030 - Critical Care I

RCA 2035 - Mechanical Ventilation I

RCA 2036 - Mechanical Ventilation II

RCA 2046 - Neonatal and Pediatric Respiratory Care

RCA 2065 - Professional Development

RCA 2066 - Advanced Monitoring and Diagnostics of the Cardiopulmonary Patient II

RCA 2070 - Clinical I

RCA 2071 - Clinical II

RCA 2072 - Clinical III

RCA 2075 - Special Topics

RCA 2080 - Internship I

RCA 2081 - Internship II

RCA 2083 - Internship III

RCA 4000 - Current Topics in Pulmonary Disease

RCA 4001 - Sleep Medicine

RCA 4002 - Advanced Concepts in Respiratory Therapy

RCA 4078 - Senior Seminar

Science

SCI 1055 - Integrated Science I - Physics and Chemistry with Lab: GT-SC1

SCI 1056 - Integrated Science II - Earth and Life Science with Lab: GT-SC1

SCI 1075-1077 - Special Topics

SCI 1105 - Science in Society: GT-SC2

Small Business Management

SBM 1001 - Starting a Small Business

SBM 1021 - Small Business Planning I

SBM 1022 - Small Business Planning II

SBM 1031 - Records and Computerization I

SBM 1032 - Records and Computerization II

SBM 1041 - Financial Analysis and Planning I

SBM 1042 - Financial Analysis and Planning II

SBM 1051 - Marketing and Risk Management I

SBM 1052 - Marketing and Risk Management II

SBM 1053 - Marketing, Risk Management and E-Commerce I

SBM 1054 - Marketing, Risk Management and E-Commerce II

SBM 1075 - Special Topics

SBM 2075 - Special Topics

Social Work

SWK 1000 - Introduction to Social Work

SWK 1060 - Introduction to Alcohol and Drugs

SWK 1075 - Special Topics

SWK 2010 - Human Behavior in the Social Environment I

SWK 2020 - Human Behavior in the Social Environment II

SWK 2050 - Social Welfare in the U.S.

Sociology

SOC 1001 - Introduction to Sociology I: GT-SS3

SOC 1002 - Introduction to Sociology II: GT-SS3

SOC 1075-1077 - Special Topics

SOC 2003 - Urban Sociology

SOC 2005 - Sociology of Family Dynamics: GT-SS3

SOC 2007 - Environmental Sociology: GT-SS3

SOC 2015 - Contemporary Social Problems: GT-SS3

SOC 2016 - Sociology of Gender: GT-SS3

SOC 2018 - Sociology of Diversity: GT-SS3

SOC 2031 - The Sociology of Deviant Behavior: GT-SS3

SOC 2037 - Sociology of Death and Dying: GT-SS3

SOC 2065 - Violence and Culture

SOC 2075 - Special Topics

SOC 2080 - Internship

SOC 2089 - Capstone

Spanish

SPA 1001 - Conversational Spanish I

SPA 1002 - Conversational Spanish II

SPA 1009 - Spanish for Travellers

SPA 1011 - Spanish Language I

SPA 1012 - Spanish Language II

SPA 1014 - Fast-track Spanish I and II

SPA 1015 - Spanish for the Professional I

SPA 1075 - Special Topics

SPA 1078 - Seminar

SPA 2011 - Spanish Language III: GT-AH4

SPA 2012 - Spanish Language IV: GT-AH4

SPA 2075 - Special Topics

Sport Vehicle Technology

SVT 1001 - SVT Orientation and Safety

SVT 1002 - SVT Rolling Chassis

SVT 1003 - SVT Electrical Theory

SVT 1004 - 2 Stroke Engines

SVT 1005 - 4 Stroke Engines

SVT 1006 - SVT Electrical Repair

SVT 1007 - SVT Drive Systems

SVT 1009 - SVT Snow/ATV/PWC

SVT 1060 - Basic Motorcycle Repair I

SVT 1061 - Basic Motorcycle Repair II

SVT 2001 - Adv. Rolling Chassis

SVT 2002 - Adv. SVT Electrical Syst.

SVT 2003 - Adv. 2/4 Stroke Engines

SVT 2004 - Simulated Shop Operations

SVT 2080 - SVT Intership

Surgical Technology

STE 1002 - Introduction to Surgical Technology

STE 1003 - Introduction to Surgical Technology Lab

STE 1005 - Pharmacology of Surgical Technology

STE 1011 - Surgical Procedures and Case Management

STE 1033 - Surgical Instruments Lab I

STE 1034 - Surgical Instruments Lab II

STE 1051 - Surgical Procedures & Case Management Lab

STE 2069 - CST Exam Review Course

STE 2075 - Special Topics

STE 2081 - Surgical Technology Clinical Internship I

STE 2082 - Surgical Technology Clinical Internship II

STE 2083 - Surgical Technology Clinical Internship III

STE 2089 - Surgical Technology Capstone

Theater

THE 1005 - Theatre Appreciation: GT-AH1

THE 1011 - Acting I

THE 1012 - Acting II

THE 1016 - Technical Theatre

THE 1031 - Theatre Production I

THE 1032 - Theatre Production II

THE 1075 - Special Topics

THE 2011 - Development of Theatre Greek-Renaissance: GT-AH1

THE 2012 - Development of Theatre Restoration to Modern: GT-AH1

THE 2015 - Playwriting: GT-AH1

THE 2020 - Directing I

THE 2075 - Special Topics

THE 2083 - Internship

Unmanned Aircraft Systems

UAS 1040 - Unmanned Aircraft Systems Flight and Control

UAS 1050 - Unmanned Aircraft Systems and Safety: UAS Foundations

UAS 1051 - Unmanned Aircraft Systems and Safety: UAS Applications

UAS 1052 - Unmanned Aircraft Systems and Safety: UAS Personnel

UAS 1053 - Unmanned Aircraft Systems and Safety: Safety Management

Upholstery

UPH 1000 - Basic Upholstery Techniques

UPH 1001 - Auto Upholstery I

UPH 1002 - Auto Upholstery II

UPH 1003 - Auto Upholstery III

UPH 1004 - Furniture Upholstery I

UPH 1005 - Furniture Upholstery II

UPH 1006 - Furniture Upholstery III

UPH 2075 - Special Topics

Veterinary Technology

VET 1002 - Veterinary Medical Terminology

VET 1016 - Humane Treatment and Handling of Animals

VET 1020 - Office Procedures and Relations

Welding

WEL 1000 - Safety for Welders

WEL 1001 - Allied Cutting Processes

WEL 1002 - Oxy-fuel Joining Processes

WEL 1003 - Basic Shielded Metal Arc I

WEL 1004 - Basic Shielded Metal Arc II

WEL 1005 - Introduction to Nondestructive Testing Methods & Visual Inspection Workshop

WEL 1006 - Blueprint Reading for Welders and Fitters

WEL 1010 - Advanced Shielded Metal Arc I

WEL 1011 - Advanced Shielded Metal Arc II

WEL 1015 - Autobody Welding & Cutting

WEL 1024 - Gas Tungsten Arc Welding I

WEL 1025 - Introduction to Gas Metal Arc Welding

WEL 1041 - Introduction to Multi Process Welding

WEL 1042 - Basic Multi Process Welding

WEL 1043 - Intermediate Multi Process Welding

WEL 1044 - Advanced Multi Process Welding

WEL 1050 - AWS Qualification Testing

WEL 1075-1077 - Special Topics

WEL 2001 - Gas Metal Arc Welding I

WEL 2002 - Gas Metal Arc Welding II

WEL 2024 - Gas Tungsten Arc Welding II

WEL 2025 - Advanced Gas Metal Arc Welding

WEL 2030 - Pipe Welding I

WEL 2033 - 2G-Horizontal Pipe A.P.I.

WEL 2034 - 5G-Vertical Down A.P.I.

WEL 2035 - 6G-45 Down A.P.I.

WEL 2039 - 2G-Horizontal Pipe A.S.M.E.

WEL 2041 - 5G-Verticial Up A.S.M.E.

WEL 2042 - 6G-45 All Sizes Pipe

WEL 2043 - Testing All Sizes Pipe

WEL 2048 - Pipe Layout

WEL 2051 - Design, Layout and Fabrication

WEL 2063 - Applied Metal Properties

WEL 2075-2077 - Special Topics

Wind Turbine Technology

WTG 1000 - Introduction to Wind Industry

WTG 1075 - Special Topics

Women and Gender Studies

WST 2000 - Introduction to Women's Studies: GT-SS3

WST 2075 - Special Topics

Finance

FIN 3020 - Applied Finance

Other Courses

ACC 1002 - Fundamentals of Accounting Hands-on Lab

ACC 1015 - Payroll Accounting

ACC 1022 - Accounting Principles II

ACC 1035 - Spreadsheet Applications for Accounting

ACC 1038 - Payroll and Sales Tax

ACC 2035 - Computerized Accounting for Small Businesses

ART 1003 - 3-D Design

CSC 2025 - Computer Architecture/Assembly Language Programming

ECO 2045 - Environmental Economics: GT-SS1

EDU 2211 - Introduction to Education

FMT 1001 - Custodial Techniques

HPR 1020 - Phlebotomy

MGD 2067 - Game Design II

WEL 2050 - Layout and Fabrication

HIT Courses

Health Information Technologies

HIM 3000 - Data Structure and Design in HIM – Domain I

HIM 3005 - Health Record Compliance and Data Integrity – Domain I

HIM 3010 - Health Information Governance – Domain I

HIM 3015 - Health Privacy and Security – Domain II

HIM 3020 - Health Information Systems – Domain III

HIM 3025 - Data Analytics and Visualization in Healthcare – Domain III

HIM 3030 - Data Use and Management in Healthcare – Domain III

HIM 4000 - Revenue Cycle Management – Domain IV

HIM 4005 - Health Law and Compliance – Domain V

HIM 4010 - Management and Leadership in Healthcare – Domain VI

HIM 4015 - Human Resources and Financial Mgmt in Healthcare – Domain VI

HIM 4020 - Org Ldshp for DEI in Healthcare-Domain VI

HIM 4089 - HIM Capstone Course

HIT 1001 - Health Information Management Science

HIT 1002 - Medical Vocabulary for Documentation

HIT 1005 - Principles of Healthcare Reimbursement

HIT 1011 - Health Data Management and Information Systems

HIT 1012 - Legal Aspects for Health Records

HIT 1020 - Working with Health IT Systems

HIT 1021 - Networking and Health Info

HIT 1022 - Workflow Fund of Healthcare

HIT 1023 - Configuring EHRS

HIT 1024 - Public Health IT

HIT 1050 - Healthcare Delivery Systems

HIT 1075 - Special Topics

HIT 1088 - Health Information Practicum I

HIT 1089 - Practicum

HIT 2020 - ICD Coding I

HIT 2022 - Quality Management

HIT 2025 - Health Information Management

HIT 2041 - CPT Coding Basic Principles

HIT 2052 - ICD Coding II for Certification

HIT 2061 - Healthcare Software

HIT 2064 - Data Visualization

HIT 2065 - Data Analytics Applications

HIT 2068 - Certification Test Preparation

HIT 2075 - Special Topics

HIT 2088 - HIT Capstone Course

HIT 2089 - HIT Capstone Course

HLT 1000 - Horticulture Science

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.

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	Minimum Guidelines For Out-of-Class Study Expectation Per 1 Credit

				Receive 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, course delivery format (online), etc.	1.0 Hour = 1 credit (1:1) Contact Ratio	2 hours
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		2.0 = 1 credit (2:1) Contact Ratio	4 hours

		ensembles, art studio, theatrical productions, etc.)			
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 Degree and Certificate Programs 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 CCCS Guaranteed Transfer (GT) - Pathways Courses under the Degree/Certificate programs section. Although Pueblo Community College does not offer all of the courses listed on CCCS Guaranteed Transfer (GT) - Pathways Courses 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.

Methods of Instruction

Independent Study, Cooperative Experience, Internship and Occupational Experience

Some PCC programs offer independent study, cooperative experience (COP), 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, COP, internship, some clinical, 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.

Common Instructional Methods at PCC

Please note that not every course offered fits precisely into the instructional method assigned, please contact your instructor, department chair, or advisor if you have questions about the instructional method being used in a course.

RM - Remote Real-Time

> Student Experience: Class will be taught in real-time, with 100% remote delivery at pre-determined times. There is no scheduled in person attendance and no room assigned on-campus. Class will be 100% real-time live meetings delivered remotely via technology.

RH - Remote Hybrid

> Student Experience: Class will have some live real-time remotely-delivered meetings at pre-determined times and some on-line components. Percentage of on-line versus remote-real time can vary by class. There is no scheduled in person attendance.

HF - HyFlex

> Student Experience: A highly flexible experience where the course is delivered entirely remotely in real-time, entirely in person in real-time, or a combination of the two. Some instructors will have specific schedules of flex days, others will leave the choice up to the student. Please contact your instructor for more information.

HL - HyFlex with Lab

> Student Experience: A highly flexible experience where the course is delivered entirely remotely in real-time, entirely in-person in real-time, or a combination of the two.
>
> Some part of this course will require in-person attendance, even if it is not strictly a lab. Please contact your instructor for more information.

CL - Classroom Based

> Student Experience: Class meetings are on-site and in-person.

CB - Competency Based

> Student Experience: Student's will have a fixed amount of time to meet specific competencies before receiving credit for the class.

HY - Hybrid

> Student Experience: Class will have some live in-person components, and some on-line components. Percentage of on-line versus in-person can vary by class.

ON - Online

Student Experience: Class is entirely online with no real-time expectations.