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## COMMUNITY COLLEGE OF DENVER



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This catalog is effective Summer 2013 through Spring 2014. CCD reserves the right to change provisions, requirements and fees that are listed in this catalog. Without notice, CCD may cancel any course or program or change its content, description, timing, availability, location, academic credit or any other aspect.

Information on occupations, rates for completion and placement, program costs and median loan debt may be found at www.ccd.edu/gainfulemployment.

Visit www.ccd.edu for updated information.
This publication is available in alternative formats. Call 303-556-3300.



OFFICE OF THE PRESIDENT

MESSAGE FROM CLIFF RICHARDSON

Welcome to the Community College of Denver!
As Interim President of Community College of Denver, I am committed to building on the strengths that have established us as one of the premier community colleges in the nation. At CCD we offer a college experience that is affordable, accessible and relevant to student needs. With a deep commitment to our students and a dedicated, quality faculty, we offer a personalized approach to learning.

CCD continues to offer many new and valuable programs designed to prepare students for today's workforce. As a part of the Colorado Community College System for nearly 30 years, I recognize the quality of the programs at CCD and the excellence of the faculty. The commitment to continue to meet the needs of the students and businesses in the Denver region is unparalleled. With an eye toward the future, the Community College of Denver provides an optimal experience for students, offering a variety of degree and certificate programs along with comprehensive support in getting started and staying focused.

At CCD, our educational programs are designed to enrich the social,
 civic and economic fabric of our community. We believe the preparation of a well trained workforce is vital to a vibrant economy. CCD offers access and opportunity for traditional and non-traditional students, workforce development and training for area businesses and collaborative community partnerships.

## HIGHLIGHTS OF WHAT TO EXPECT AT COMMUNITY COLLEGE OF DENVER:

- Choose from over 100 degree or certificate programs representing career options that will provide job specific skills or prepare you for a four-year degree.
- CCD guarantees students who graduate with an Associate of Arts (AA) or Associate of Science (AS) will be able to transfer credits to Colorado public colleges and universities.
- CCD has achieved the designation of Hispanic Serving Institution (HSI). Because 25 percent of our students are Hispanic, CCD receives federal funding and grant opportunities that offer scholarships and learning programs for HSI colleges.
- FastStart is a nationally recognized program designed to accelerate students through multiple semesters of remedial coursework, helping to improve student performance and shorten the learning curve.
- Several programs are available to assist students in achieving academic success including TRIO Student Support Services, the Educational Opportunity Center, the Resource Center and the Denver Transfer Initiative.

With nearly $17,000^{*}$ students, the Community College of Denver is located in downtown Denver, providing an energized, diverse, urban experience. CCD changes lives and helps make dreams come true through education. Take the first step and see what CCD has to offer. We believe you'll like what you see.

Sincerely,


## CLIFF RICHARDSON

INTERIM PRESIDENT COMMUNITY COLLEGE OF DENVER

* unduplicated headcount for one calendar year



## INSTITUTIONAL ACCREDITATION

CCD is regionally accredited by The Higher Learning Commission and a member of the North Central Association.

For more information, contact: THE HIGHER LEARNING COMMISSION
230 South LaSalle Street, Suite 7-500 • Chicago, Illinois 60604-1413 Phone: 800-621-7440/312-263-0456 • Fax: 312-263-7462
www.ncahlc.org

## MEMBERSHIPS

CCD is a member of the following associations:

## American Association of

Community Colleges (AACC)
One Dupont Circle NW, Suite 410 • Washington, DC 20036
Phone: 202-728-0200 • Fax: 202-883-2467
www.aacc.nche.edu
Hispanic Association of Colleges and Universities (HACU)
8415 Datapoint Drive, Suite 400 • San Antonio, TX 78229
Phone: 210-692-3805 • Fax: 210-692-0823
www.hacu.net

## CCD PROGRAM ACCREDITATIONS

Specific programs are accredited (or approved) through professional organizations as follows:

## Children's College Lab School at the Auraria Campus

Three-star rated Qualistar facility
Qualistar Colorado
3607 Martin Luther King Boulevard • Denver, CO 80205
Phone: 303-339-6800 • www.qualistar.org

## Dental Hygiene

American Dental Association (ADA)
Commission on Dental Accreditation (CODA)
211 East Chicago Ave, Suite 1900•Chicago, IL 60611-2678
Phone: 312-440-4653 • Fax: 312-440-2707 • www.ada.org

## Human Services

Council for Standards in Human Service Education (CSHSE)
3337 Duke Street • Alexandria, VA 22314
Phone: 571-257-3959 • www.cshse.org

## Practical Nursing Certificate

Full Approval by Colorado Board of Nursing
Candidacy with National League for Nursing
Accrediting Commission (NLNAC)
3343 Peachtree Road NE, Suite 850 • Atlanta, GA 30326
Phone: 404-975-5000 • Fax: 404-975-5020 • www.nInac.org

## Radiologic Technology

Committee on Allied Health Education and Accreditation Joint Review Committee on Education in Radiologic Technology (JRCERT)
20 N. Wacker Drive, Suite 2850 • Chicago, IL 60606-3182
Phone: 312-704-5300 • Fax: 312-704-5304 • www.jrcert.org

## Veterinary Technology

American Veterinary Medical Association (AVMA)
1931 N. Meacham Road, Suite 100 • Schaumburg, IL 60173-4360
Phone: 800-248-2862 • Fax: 847-925-1329 • www.avma.org


This catalog is a valuable tool in answering questions and helping students who attend the Community College of Denver. The CCD Catalog is organized to guide students through each step of their college career:

- Admission and Registration
- Tuition and Fees
- Financial Aid
- Campus Services
- Selected Policies
- Degree and Certificate Requirements
- Course Descriptions
- Faculty and Staff Information

Please see a CCD General Studies Advisor or Program Advisor to answer any questions about th $\epsilon$ material in this catalog or for help in planning educational goals.

This catalog is one of three publications that are essential to a student's success at Community College of Denver. The other two publications are:

- Schedule of Classes - a semester publication of classes offered. The schedule is available online and in print.
- Student Handbook - an annual publication of regulations and resources at CCD. The handbook is distributed to students attending orientation and available for pick-up at the Welcome Center or the Lowry Campus.

Each course listed in the catalog may not be offered every semester. Some courses are taught only when there is a demand for specific instruction to complete a major curriculum. For a list of courses available each semester, students should consult the current class schedule.

## Which Catalog To Use

This catalog is effective Summer Semester 2013 through Spring Semester 2014. First time students at Community College of Denver should use this catalog.

Continuing students who have not had a 12-month lapse in enrollment since first enrolling at CCD have the following "catalog of record" options for meeting their graduation requirements. Catalog in effect when the student:

- is admitted to CCD;
- first registers at CCD;
- submits a Program of Study Change

Request form;

- or applies for graduation.

Students cannot combine major requirements from multiple catalogs for graduation purposes. The catalog of record can be used for only six years for degree programs and three years for certificate programs. Students who do not

maintain continuous enrollment (attend at least one term during each 12 month period) must be readmitted and are subject to the catalog in effect beginning with the term for which they are readmitted.

CCD retains the right to cancel or change programs or course offerings where enrollments are insufficient or for any other reason.

## Where to Find Catalog Updates

This catalog is true and accurate at the time of publication. Additions and changes may occur because of changes in state, system or college regulations, or accreditation requirements. Updates, changes and addenda to this catalog can be found on the CCD website: www.ccd.edu.


| Academic Advising Center |
| :--- |
| Academic Support Center |
| Academic Technology Center |
| Accessibility Center |
| Admissions, Registration and Records |
| $\mathbf{3 0 3 - 5 5 6 - 2 4 9 7}$ |
| $\mathbf{3 0 3 - 5 5 6 - 3 5 0 0}$ |

Admissions; Graduation; College Opportunity Fund (COF); International Student Services; Records; Registration; Residency; Transfer Credit; Veterans Affairs

| Auraria Operator | $303-556-2400$ |
| :--- | :--- |
| Voice/TDD | $303-556-3300$ |
| Bookstore, Auraria | $303-556-4286$ |
| Business Office (see Cashier) | $303-556-2401$ |
| Campus Closure | $303-556-5000$ |
| Campus Police | $303-556-3210$ |
| Campus Recreation | $303-352-3306$ |
| Career Development Center | $303-556-6305$ |
| Career and Technical Tutoring Services | $303-556-2600$ |
| Cashier | $303-289-1249$ |
| CCD Call Center | $303-556-2487$ |
| CCD North Satellite Location |  |

Accounting; Business Administration; Business Technology; Computer Information Systems; Computer Science; Criminal Justice; Early Childhood Education; Economics; Education;
Elementary Education; Engineering Graphics; Fabrication Welding; Geography; Information Technology; Machine Technologies; Political Science
Center for Educational Advancement
303-556-8455
Academic Achievement, Developmental English; Developmental Math;
English-as-a-Second-Language; FastStart; Foundational Skills Institute (formerly GED Institute)/Adult Basic Education; Reading/Study Skills
Center for Health Sciences at Lowry
303-365-8300
Computed Tomography; Dental Hygiene; Electroneurodiagnostics;
Emergency Medical Services; Mammography; Nursing (PN); Nurse Aide;
Radiologic Technology; Radiation Therapy; Veterinary Technology
Center for Language, Arts and Behavioral Sciences 303-556-2473
Anthropology; Arabic; Art; American Sign Language; Chinese; Communication;
Dance; English; French; German; Graphic Design; History; Human Services;
Humanities; Italian; Journalism; Literature; Music; Paralegal; Philosophy;
Psychology; Sociology; Spanish; Theatre; Women's Studies
Center for Math and Science
303-556-2460
Astronomy; Biology; Chemistry; Environmental Science, Geology; Mathematics;
Nutrition; Physics; Pre-Dental; Pre-Engineering; Pre-Medical; Pre-Pharmacy; Pre-Physical Therapy; Pre-Veterinary Science; Science
Children's College Lab School
303-556-2439
Early Childhood Education; Elementary Education
College Pathways
Concurrent Enrollment; ASCENT; Early and Middle Colleges
Computer Labs
303-556-2520
Dental Hygiene
303-365-8303

Early and Middle Colleges
(see College Pathways)

| EMERGENCY (if using campus phone) | $\mathbf{9 - 9 1 1}$ |
| :--- | ---: |
| Financial Aid | $\mathbf{3 0 3 - 5 5 6 - 5 5 0 3}$ |

First Year Experience (see Resource Center)
Gay, Lesbian, Bisexual, Transgender (GLBT)
Student Services at Auraria 303-556-6333
Health Center at Auraria 303-556-2525
Information Technology Help Desk 303-556-2487
Institutional Research and Planning 303-556-6178
Instructional Support 303-352-3302
International Student Services 303-556-3564
Library, Auraria 303-556-2639
New Student Orientation 303-352-3788
Nursing and Allied Health Programs
(see Center for Health Sciences at Lowry)
Office of Student Affairs
303-352-3074
Parking and Transportation, Auraria 303-556-2000
President's Office 303-556-3786
Provost 303-352-3048
Records
(See Admissions, Registration and Records)
Recruitment and Student Outreach 303-556-6089
Registration and Records (see Admissions, Registration and Records)
Resource Center 303-556-4964
First Year Experience (FYE); Denver Scholars; The Link

| Student Life | $\mathbf{3 0 3 - 5 5 6 - 2 5 9 7}$ |
| :--- | :--- |
| Teaching/Learning Center (TLC) | $\mathbf{3 0 3 - 5 5 6 - 3 7 8 7}$ |
| Testing Center | $\mathbf{3 0 3 - 5 5 6 - 3 8 1 0}$ |
| Transfer Success Center | $\mathbf{3 0 3 - 5 5 6 - 2 4 6 1}$ |

Transfer Success Center 303-556-246

TRIO Programs
Educational Opportunity Center 303-629-9226
Student Support Services 303-556-4964
Veterans Office 303-556-6200
Vocational Tutoring Services
(see Career and Technical Tutoring Services)
Welcome Center
303-352-3079




## CCD GUIDING PRINCIPLES

 CCD Vision Statement Every member of our community will attain the education he or she desires.CCD Mission Statement
CCD provides our diverse community an opportunity to gain quality higher education and achieve personal success in a supportive and inclusive environment.

CCD Values<br>Involvement<br>Student-Focus<br>Integrity<br>Lifelong Learning<br>Excellence<br>Healthy Work Environment

CCD Goals for 2013-2014
Increase CCD retention, completion and transfer rates. Connect students to CCD support programs and resources. Support student achievement of CCD's institutional outcomes. Develop and improve relationships within our community.

## INSTITUTIONAL OUTCOMES

Community College of Denver has established the following institutional outcomes:

- A CCD graduate is a Complex Thinker. Students will explore and evaluate multiple sources of information, which they will synthesize to solve problems; they will extract meaning from texts, instruction, experience and other relevant sources to construct new problemsolving approaches based on their insights. Students will make relevant connections between classroom and out-of-classroom learning.
- A CCD graduate is an Effective and Ethical User of Technology. Students will exhibit technological literacy and the skills to effectively use it; they will demonstrate the responsible application of intellectual property and privacy; students will use technology ethically and effectively to communicate, solve problems and complete tasks; students will remain current with technological innovations.
- A CCD graduate is an Effective Communicator. Students will convey meaning by writing and speaking coherently and effectively in a way that others understand; students will write and speak after reflection; students will influence others through writing, speaking, or artistic expression that is appropriate for the context and audience; students will use appropriate syntax and grammar; students will listen attentively to others and respond appropriately. Students will understand and apply conventions of effective writing and oral communication in academic, public and professional discourse.
- A CCD graduate is Globally Aware. Students will consider the interconnectedness of our community and world; they will understand how cultural differences (such as beliefs, traditions, religion, ethnicity, sexuality and gender) impact personal and community participation; they are aware of the social, environmental and economic impacts of their actions; they evaluate how technology links individuals and communities and are aware of the social, environmental, technological and economic impacts of their actions.
- A CCD graduate is Personally Responsible. Students will incorporate ethical reasoning into action; they will explore and articulate the values of professionalism in personal decision-making. They exemplify dependability, honesty, trustworthiness and accept personal accountability for their choices and actions. Students will exhibit self-reliant behaviors, including: managing time effectively, accepting supervision and direction as needed, perseverance, valuing contributions of others and holding themselves accountable for obligations.
- A CCD graduate is a Numeric Thinker. Students will select relevant data and use several methods such as algebraic, geometric and statistical reasoning to solve problems; they will interpret and draw inferences from data and mathematical models; they are able to represent mathematical information symbolically, graphically, numerically and verbally.



## DIVERSITY AT CCD

CCD provides an educational environment that fosters cultural diversity, international understanding and global awareness. CCD is dedicated to expanding access, particularly for underserved, first-generation and minority students. CCD's commitment to diversity is reflected by the student population:

- 46 percent of CCD students are first-generation: the first in their families to attend college.
- The average age of students is 27 .
- 57 percent of students are female.
- Students of color comprise more than half of the student body.
- Hispanic students make up a quarter of CCD's population.
- Over 50 percent of students qualify for financial aid.

CCD is an equal opportunity educational institution and does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender expression, age, veteran status or disability. It also does not tolerate acts of ethnic intimidation, which are unlawful acts against persons or groups because of race, color, ancestry, religion or national origin for the purpose of inciting and provoking bodily injury or damage to property.

## The following office has been designated to handle inquires regarding nondiscrimination policies: <br> Rhonda Pylican <br> Director of Human Resources/Title IX Officer <br> PO Box 173363, Campus Box 240 <br> Denver, CO 80217-3363 <br> 303-352-3037

## CCD HISTORY

The Colorado Legislature created CCD in 1967. Three years later, classes began in a renovated auto showroom close to Denver's Civic Center. When enrollment increased rapidly, the college expanded into retail storefronts near the main building.

In 1975, CCD moved to the 124-acre Auraria Higher Education Center campus in downtown Denver. It sits on the west bank of Cherry Creek, originally the site of the 1858 frontier town of Auraria. The campus has the oldest-standing structure in Denver - the former Temple Emmanuel, now the Emmanuel Gallery, an exhibition space for student and faculty artwork. It also is the only community college in the nation to share a campus with two four-year universities - Metropolitan State University of Denver and University of Colorado Denver. The three institutions share classroom buildings, a regional library, recreational facilities, a performing arts center and a student union.

CCD is one of 13 institutions in the Colorado Community College System. It is the third largest with more than 5,000 full-time equivalent students and an unduplicated student headcount of more than 17,000. CCD is the only community college in the City and County of Denver.

## CAMPUS INFORMATION

## Auraria Campus

CCD's main Auraria Campus is in the heart of the city and within walking distance of downtown, Larimer Square, the 16th Street Mall, LoDo, the Denver Pavilions, Colorado Convention Center and the Denver Center for the Performing Arts Complex. The Auraria Campus is close to Sports Authority Field at Mile High, home of the Denver Broncos; Coors Field, home of the Colorado Rockies; the Pepsi Center, home of the NHL Colorado Avalanche and NBA Nuggets; Elitch Gardens; and the Downtown Aquarium.

## Auraria Higher Education Center (AHEC)

The Community College of Denver has a partnership with the Auraria Higher Education Center (AHEC).

AHEC is committed to providing an effective, comprehensive and supportive environment which facilitates the missions of Community College of Denver, Metropolitan State University of Denver and the University of Colorado Denver, including the Auraria Campus Police Department (ACPD).

## Satellite Locations

In 1985, CCD North opened at 6221 Downing St., six miles northeast of Auraria. CCD North houses two trades programs: fabrication welding and machine technologies.

During the summer of 1999, CCD's Center for Health Sciences moved to the Lowry Campus. Former Lowry Air Force Base classrooms were renovated to house the health programs. The former air force base dental clinic was adapted for CCD's Dental Hygiene program. The Lowry Campus borders east Denver and west Aurora.

In 2003, CCD entered into a unique partnership with Denver Public Schools, launching the CEC Middle College of Denver. Middle College students earn dual high school and college credit for classes they take during their junior and senior years.

Under a similar arrangement with CCD in fall 2004, DPS opened Southwest Early College, a charter school. In the students'"13th year" of school, they can graduate with both a high school diploma and an Associate degree.

## GAINFUL EMPLOYMENT

Information on occupations, rates for completion and placement, program costs and median loan debt may be found at www.ccd.edu/gainfulemployment.

## COLLEGE GUARANTEES

## We guarantee your transfer

To help eliminate the guesswork of transferring course credits and associate's degrees, Colorado has developed a statewide guaranteed transfer program called GT Pathways (guaranteed transfer pathways) and many statewide articulation agreements. Community College of Denver adheres to these established programs and agreements to guarantee the transfer of credit.

GT Pathways applies to all Colorado public colleges and universities, including the Community College of Denver. After starting at any public college or university in Colorado, upon acceptance to another, students can transfer up to 31 credits of previously and successfully (C or better) completed GT Pathways coursework. These courses will automatically transfer and continue to count towards general education core or graduation requirements for any liberal arts or science, associate's or bachelor's degree. Students should check with the school they wish to attend so they are clear about which credits will transfer beyond any that are guaranteed by GT Pathways.

The purpose of a statewide transfer articulation agreement is to identify the courses a student at a Colorado public community college must complete as part of an Associate of Arts (AA) or Associate of Science (AS) degree to be guaranteed to be able to complete a bachelor's degree program ( BA or BS ) at any public four-year college or university that offers that bachelor's degree program. Students should check with their Program Advisor at CCD and the 4-year school they wish to transfer into to ensure they are registering for the appropriate courses. These statewide transfer articulation agreements are also referred to as Degrees with Designation.

Besides GT Pathways and the statewide transfer articulation agreements listed above, many colleges and universities have other transfer agreements that may apply to students. For students who complete an Associate of Arts or Associate of Science degree, 60 credit hours of their AA or AS degree are guaranteed to transfer to a Colorado public four-year school, once they are accepted for admission. And, students may be able to finish a Bachelor of Arts or Bachelor of Science degree within another 60 credit hours. This is called a $60+60$ transfer plan. Note that some bachelor's degrees require more than an additional 60 credits to complete. When in doubt, students should speak to an advisor.


## AURARIA MAIN CAMPUS | 303-556-2600

## 1111 W. Colfax Ave.

P. O. Box 173363, Denver, CO 80217-3363

## RTD Light Rail Stations on Auraria Campus

- Colfax at Auraria station: West Colfax Avenue, between Lipan and Mariposa streets
- Auraria West Campus station: Adjacent to the Aspen Parking Lot, between Fourth and Fifth streets


## RTD Routes to the Auraria Campus

- Via Auraria Parkway: \#0, \#15
- Via Colfax Avenue: \#1,\#16, \#16L \#29L, \#30, \#31, \#36L
- Via Seventh Street: \#10

The Auraria student fee-paid Regional Transportation District (RTD) CampusPass entitles students taking on-campus classes to ride buses and Light Rail free in the Denver area and now gives students regional service, too.

## CENTER FOR HEALTH SCIENCES AT LOWRY | 303-365-8300

Center for Health Sciences, 1070 Alton Way, Building 849
Denver, CO 80230
RTD Routes: \#10, \#73, \#6, \#3, \#3L, \#105, \#65, \#65A, \#11, \#15, \#15L

## CCD DENTAL HYGIENE CLINIC | 303-365-8338

1062 Akron Way, Building 753 • Denver, CO 80230
RTD Routes: \#10, \#73, \#6, \#3, \#3L, \#105, \#65, \#65A, \#11, \#15, \#15L

## CCD NORTH | 303-289-1249

6221 Downing St., Denver, CO 80216
RTD Route: \#7



## SUMMER 2013

MAY 27 Memorial Day Holiday (No classes/all locations closed)
MAY 28 Classes begin, check schedule for alternative late start dates
JULY 4 Independence Day (No classes/all locations closed)
AUG 5 Last day of classes
FALL 2013
AUG 19 Classes begin, check schedule for other late start dates
SEPT 2 Labor Day Holiday (No classes/all locations closed)
NOV 28 Thanksgiving Holiday (No classes/all locations closed)
NOV 25-DEC 1 Fall Break (No classes/offices open M-W \& F)
DEC 9 Last day of classes
DEC 25-JAN1 Holiday Break (No classes/all locations closed)

## SPRING 2014

JAN 20
JAN 21
MAR 24-30
Martin Luther King, Jr. Holiday (No classes/all locations open)

Spring Break (No classes/all locations open)
MAY 12 Last day of classes
MAY 15 CCD Commencement


To meet the diverse needs of students, Community College of Denver offers a variety of ways for students to reach their educational goals.

## TRADITIONAL-STYLE COURSES

CCD offers traditional-style courses in which students are required to attend lectures and/or labs on specific days and times. Regular classes run for 15 weeks during Fall and Spring semesters and for 10 weeks during Summer semester. Classroom instruction includes a minimum of 15 hours of in-person contact per credit hour. Instruction may include lectures, small group discussion, labs, field trips or other in-person delivery methods. Many traditional-style courses include online exercises.

## HYBRID COURSES

Hybrid courses include both traditional-style, in-class sessions and online meetings, exercises and/or scheduled discussions. This format combines the flexibility of online courses with the opportunity to meet face-to-face with the instructor and classmates.


## ONLINE COURSES

## CCD Online Courses

Class participation and the exchange of ideas are the foundation of CCD online courses. CCD online courses have specific beginning and ending dates and learners cover designated material with weekly due dates for assignments. Learners retain control over their daily schedules and do not need to be at the computer at a specific time on a specific day. Email access and computer literacy are required.

## CCCOnline Courses

CCCOnline is a consortium of all the community colleges in Colorado. For more information, visit www.ccconline.org.

## LATE-START COURSES

Late-start courses are designed for students who want to enroll after the first day of classes. Credit earned through late-start courses is identical to credit earned through any other CCD course. Class duration, start dates and end dates vary, students should check the course schedule for complete details.

## EVENING AND WEEKEND COURSES

Like traditional-style courses, evening and weekend courses require attendance on specific days and times. Many evening and weekend courses may also be late-start or accelerated and may meet for longer class sessions than traditional-style courses.

## ACCELERATED COURSES

Accelerated courses offer fast-paced, intensive learning options for motivated students and are ideal for those who can work independently. Check class requirements and class dates, as some accelerated courses are also late-start courses.

## FASTSTART COURSES

FastStart is a program designed to enhance student learning by pairing developmental and/or college-level courses in a learning community. For additional information, please refer to FastStart on page 34.

## INTER-INSTITUTIONAL COURSES WITH MSU Denver \& UCD

CCD and neighbor institutions Metropolitan State University of Denver (MSU Denver) and University of Colorado-Denver (UCD) have an interinstitutional agreement that allows CCD students to take select courses at MSU Denver or UCD if space is available. The tuition will be paid at CCD, excluding any fees that may be required. MSU Denver and UCD students can also take select courses at CCD if space is available. For instructions on how to register for inter-institutional courses, please refer to Inter-institutional Registration on page 21.

## THE SMALL BUSINESS DEVELOPMENT CENTER

The Small Business Development Center (SBDC) provides small business owners and aspiring entrepreneurs with guidance in small business planning, start-up preparation, loan and bid package preparation, contract identification and marketing plan development. SBDC staff works with grant writing and funding for small businesses, small business computerized databases and information networking. Visit the SBDC at 1445 Market St. or call 303-620-8076.


Academic Calendar: The period that makes up the school year. CCD's academic calendar consists of two 15 -week semesters (Fall and Spring) and one 10 -week Summer semester. There are set start and end dates for each semester. Payment, drop, registration and grading policies are set in accordance to the academic calendar. Not all classes follow the traditional 15 -week (or 10 -week in Summer) schedule.

Academic Progress: The college policy which dictates the minimum GPA a student must maintain to continue enrollment at CCD. Failure to meet Academic Progress requirements could also affect financial aid eligibility.

Academic Year: Students are assigned an academic year depending upon the number of college-level credit hours completed.

- Freshman: Successful completion of fewer than 30 college-level semester credit hours.
- Sophomore: Successful completion of 30 or more college-level semester credit hours.
- Unclassified: Awarded a degree at the associate level or above.

Census Date: The last date a student can drop a class and receive a refund. Classes dropped before the census date will not appear on a student's academic record. Students who withdraw from a course after census date will not receive a refund. Withdrawn courses will appear on the academic record with a grade of W. The census date varies depending upon the length of the course. Students should refer to their schedule of classes to determine the census date for each course.

Corequisite: If a course has a corequisite, students must take another course concurrent with (or prior to) enrollment in the course. It is the student's obligation to know and meet course corequisites as stated in the course description section of the CCD Catalog and the Schedule of Classes. Corequisites will be checked at registration and the student may be required to file proof of meeting corequisites.

College-Level Courses: Courses numbered 100 or higher (ex. MAT 121). Grades received in college-level courses are used when calculating GPA. These courses can be used to satisfy graduation requirements.

College Opportunity Fund (COF): A stipend provided to eligible undergraduate students who are Colorado residents. The stipend pays a portion of total in-state tuition for students attending a Colorado public institution or a participating private institution. The stipend is paid on a per-credit-hour basis. The credit-hour amount is set annually by the General Assembly.

Consortium: A written agreement between two schools that allows a student to be co-enrolled at CCD and another institution and receive financial aid based on the combined enrollment at both institutions.

Course Load: The typical course load for full-time CCD students is 12 or more credit hours. For tuition and certification purposes, students who register for fewer than 12 credit hours are considered part-time during the academic year.

For enrollment verification purposes, student course load (Fall, Spring or Summer) is defined:

- Twelve credits is full-time
- Nine credits is three-quarter time
- Six credits is half time
- Less than six credits is less than half time

Developmental Courses: Courses numbered below 100 (ex. MAT 090). Grades received in developmental courses are not used when calculating GPA and these courses cannot be used to satisfy graduation requirements. These are also sometimes referred to as "remedial" courses.

Emancipation: For residency requirement purposes, students under the age of 23 can claim emancipation if their parents or legal guardians have surrendered the right to their care, custody and earnings and who no longer claim them as dependents for tax purposes.

FAFSA: The Free Application for Federal Student Aid (FAFSA) must be submitted annually in order to determine eligibility for financial aid.

FERPA: Family Educational Rights and Privacy Act of 1974 (FERPA) is the federal regulation which protects the privacy of a student's academic records.

General Studies Advisor: An advisor who helps both new and continuing students develop an academic plan, understand academic policies and procedures, discuss placement test results and access campus resources.

GPA: Grade Point Average (GPA) is the average grade earned by a student. This is a measure of a student's academic achievement and is calculated by dividing the total number of grade points earned by the total number of credits attempted. Only grades received in college-level courses taken at CCD are used to calculate GPA.

Home Institution: For both consortium agreements and inter-institutional registration, the home institution refers to the institution from which the student is seeking a certificate or degree. Typically, the student receives financial aid from the degree-granting institution (the home institution).

Host Institution: For both consortium agreements and inter-institutional registration, the host institution refers to the institution where the student will be visiting and taking courses to transfer back to the home institution.

Inter-Institutional Registration: CCD and neighbor institutions Metropolitan State University of Denver (MSU Denver) and University of ColoradoDenver (UCD) have an inter-institutional agreement that allows CCD students to take select college-level courses at MSU Denver and UCD if space is available. Inter-institutional registration also allows MSU Denver and UCD students to take select college-level courses at CCD if space is available.

Late Start/Accelerated: Courses designated as Late Start/Accelerated have different start dates than the traditional 15-week semester courses. The student must complete all course requirements by the end of the semester.

Major: The field of academic study in which a student specializes. The selected major will determine which courses are required for a student's program of study.

Prerequisite: If a course has a prerequisite, students must have certain knowledge to be successful in the course. The prior knowledge may demonstrated through a test score or a successful completion of a prior course (ex. must have completed ENG 060 with a grade of $C$ or better). Completion of the prerequisite is required prior to enrolling in the course and U/D, U/F, D, F, SP or I grades are not acceptable. It is the student's obligation to

know and meet course prerequisites as stated in the course description section of the CCD Catalog and the Schedule of Classes. Prerequisites will be checked at registration and the student may be required to provide proof of meeting prerequisites.

Program Advisor: An advisor who is assigned to a specific academic center or special program. Program Advisors help students who have declared their program of study track their academic progress, provide information about important deadlines, assist with transfer to 4-year institutions and answer questions regarding program completion.

Sequence: Set of two or more courses in one subject area usually taken in numerical order (ex. ENG 121, ENG 122).

Withdrawal Date: The last date a student can drop a class and receive a grade of W. No refund will be given for classes withdrawn from after the census date. Students must withdraw from their course(s) via their CCDConnect account. Students who stop attending classes without withdrawing will receive failing grades. The withdrawal date varies depending upon the length of the course. Students should refer to their schedule of classes to determine the withdrawal date for each course.


## STEPS TO SUCCESSFUL ENROLLMENT

## 1. APPLY TO CCD AT WWW.CCD.EDU

- You need to apply for admission to Community College of Denver if you are new to college, transferring from another institution or returning to CCD after an absence of more than one year. Our open admission policy provides access to all who desire a higher education or seek to enhance their knowledge and skills. Apply online at www.ccd.edu.
- Record your student identification number, which should be included in your acceptance letter, in a secure location.
- Colorado residents are eligible for the College Opportunity Fund (COF) which pays a portion of your total in-state tuition. You can apply for COF through the admissions application or online at www.ccd.edu/cof.
- To transfer credit from any regionally accredited institution, provide official transcripts and complete the Transfer Credit Evaluation Request Form.
- CCD Cyber Center • 303-556-2600 Drop-in help filling out your application
- Educational Opportunity Center 303-629-9226
One-on-one admissions and financial aid assistance, call for appointment.
- Admissions, Registration \& Records 303-556-2420


## 2. APPLY FOR FINANCIAL AID

- Fill out the Free Application for Federal Student Aid (FAFSA) at www.FAFSA.gov. It is the first step in receiving federal financial aid money such as Pell Grants and Federal Direct Stafford Loans. The priority deadline for the FAFSA is March 1 of every year. CCD's Title IV School Code is 009542. The financial aid process takes six to eight weeks, and some funds run out quickly, so start early! Also, be sure to apply for local CCD scholarships at www.ccd.edu.
Date FAFSA completed $\qquad$ 1 1
- Sign in to CCDConnect, the web portal for the college, where you can view your registration, financial aid status and access your student email account. Be sure to submit any requests for documentation to the Financial Aid office.
- Educational Opportunity Center 303-629-9226
Admissions and financial aid assistance, call for appointment
- Financial Aid • 303-556-5503


## 3. MEET THE ASSESSMENT REQUIREMENT

In order to register for classes, ALL students, including transfer students and previously degreed students, must meet assessment requirements in the areas of math, reading and English. Assessment allows us to make sure that you are placed into appropriate courses. To meet the assessment requirements, you must do one of the following:

- Take the placement test to assess your current academic skill level. Before you take the test you are strongly encouraged to complete an Accuplacer Workbook (available at www.ccd.edu/testing and to attend an Accuplacer Workshop if you have any questions. Accuplacer Workshops will help you prepare for test day and refresh your math, reading, and English skills. Completing the workbook to the best of your ability may also exempt you from paying the $\$ 10$ test fee. Bring your completed workbook to the Testing Center prior to testing. OR
- Provide a copy of ACT or SAT scores (no more than five years old) with the following scores for review and possible exemption from one or all required areas.

| Assessment | ACT | SAT |
| :--- | :---: | :--- |
| Reading | 17 | 430 (Critical Reading) |
| English | 18 | 440 (Critical Reading) |
| Math | 19 | 460 |

## OR

- Provide a copy of college transcripts from a regionally accredited institution to the testing center, along with the Transcript Intake Form (found at www.ccd.edu/testing) for review and possible exemption from one or all required areas.

If you are here to improve your English language skills, please visit the English-as-a-Second-Language program advisor before coming to take the ESL Test.

If you believe you will need accommodations for your test due to a disability, contact the Accessibility Center at 303-556-3300.

- Testing Center • 303-556-3810
www.ccd.edu/testing • Fax: 303-556-8027


## 4. ATTEND NEW STUDENT ORIENTATION

Learn important information about being successful at CCD, including how to activate your CCD email account, meet immunization requirements and check
your financial aid status. Meet in groups with advisors to learn how to register for classes. Plus, take a campus tour, meet other students, and learn how to get involved at CCD. All new first-time students must attend orientation before receiving advising. A hold will be placed on your account until you have attended a session. Register at www.ccd.edu/NewStudentOrientation. Be sure to print out your email/ confirmation page, fill in your information and bring it with you to your session.

Exemptions from Orientation are provided under certain limited circumstances. Please visit www.ccd.edu/NewStudentOrientation to review the exemption requirements, and then contact the orientation department directly at ccd. orientation@ccd.edu or 303.556.3788. If you are exempt from Orientation, you must still complete the online Orientation at www.ccd.edu/NewStudentOrientation prior to meeting with an advisor.

New Student Orientation Date:
Time:
Location:
] Activate your CCD email account. It is the official means of communication between the you and college. Record your email address and password in a secure location.

## - Recruitment \& Student Outreach 303-556-3788

## 5. GET ADVISING

Academic Advising provides comprehensive services to assist you with developing an academic plan, understanding academic policies and procedures, discussing Accuplacer test results, obtaining accurate information, discussinh academic progression and degree requirements and helping you access campus resources to increase your success. Academic Advising is here to support you along the way; however, you are ultimately responsible for monitoring your own progress and understanding CCD policies

- If your assessment results show that you test into college-level coursework, your initial advising will come from the Academic Advising Center.
OR
- If your assessment results show that you need to take two or more developmental courses (030-, 060- or 090-level math, reading or English or English-as-a-SecondLanguage classes), visit the Center for Educational Advancement OR
- If you are interested in a Heath Science program, you should meet with a Program Advisor at the Health Sciences Center at Lowry.

My Advisor:
Phone:
Email:

- If you believe you will need accommodations for your courses, contact the Accessibility Center. Accommodations can take time to arrange so it is best to do this as early as possible.
- Academic Advising Center • 303-556-2481
- Center for Educational Advancement 303-556-8455
- Health Sciences at Lowry • 303-365-8300
- Accessibility Center • 303-556-3300

6. REGISTER FOR CLASSES

Class schedules are available online at ccd.edu or in the South Classroom Lobby.

- Register through CCDConnect at www. ccd.edu. You can download step-by-step instructions to guide you through the process. Colorado residents, also be sure to authorize your College Opportunity Fund (COF). Once you've registered, be sure to print your class schedule; you will need it to receive a Student ID card and an RTD pass.

Registration Begins $\qquad$ _

- CCD Cyber Center • 303-556-2600

Drop-in help registering for classes
7. COMPLETE THE PAYMENT PROCESS

- Pay your tuition and fees in full by the payment deadline. If you're receiving financial aid, make sure that your award is enough to cover your charges. You may arrange to pay your tuition through FACTS or through a CCD promissory note. If you register for a course after the payment deadline, payment is due at the time you register. If you miss the payment deadline, you may be dropped from all classes and will need to re-register, and your original classes may not be available. Refer to the Schedule of Courses for payment deadlines.
] Activate your HigherOne/CCCS Refund Card to select your refund preferences once you receive the card in the mail.
- Cashier's Office • 303-556-2075

8. PURCHASE BOOKS, SUPPLIES \& STUDENTID

- The Student ID Center is located in the Tivoli Student Union. Make sure to bring a copy of your current schedule and a valid, government-issued photo ID. CCD ID cards cost \$15. The Auraria Campus Bookstore is also located in the Tivoli.

9. ATTEND CLASSES! BE SUCCESSFUL

There are many people to support your efforts: instructors, classmates, academic advisors, program advisors, tutors, peer
mentors, administrators, student support services and many others. Contact Student Life to get involved with student clubs and organizations, to find out about campus events, plus much more. Find CCD on Facebook at www.facebook.com/comcolden.

## - Student Life • 303-556-2597

## RESOURCES FOR NEW STUDENTS

No one at CCD expects students to navigate college by themselves! The college has many services to help new students make the most of their time at CCD so they leave with all the knowledge and skills needed for career success or transfer to a four-year institution.

## New Student Orientation

All students who are new to the Auraria campus must sign up for and attend an orientation. It is recommend that students complete placement testing prior to orientation. It is important to prepare for testing before taking the Accuplacer because test scores determine a student's eligibility for courses.

At orientation, students will have the opportunity to learn about services on campus, meet other students, and learn how to be successful from current CCD students. A variety of services and programs that are integral to success at CCD will be discussed, including the Recreation Center, the Student Life office, Financial Aid, the Career Development Center, the Auraria Library and more. At the end of orientation, students will have the chance to learn about special services and programs offered on and off campus, including student housing and banking, food services, how to obtain a student ID and many other resources and opportunities in the Tivoli or around campus.

Contact the New Student Orientation Coordinator at 303-556-3788 for more information.

## Academic Advising Center (AAC)

New students should visit the Academic Advising Center (AAC) and get to know a General Studies Advisor. They are there to help students develop an academic plan, understand academic policies and procedures, discuss placement test results and access campus resources. Stop by or call 303-556-2481.

Students enrolled in developmental and remedial classes - those with course numbers below 100 - can talk to a Program Advisor in the Center for Educational Advancement at 303-556-8455.

## Program Advisors

Each of CCD's Academic Centers has Program Advisors to work with students who have selected the degree or certificate program they wish to pursue. The role of the Program Advisor is to help students stay on track with their academic plan, understand policies and procedures, access campus resources, complete their degree or certificate program and successfully transfer or enter the work-force upon completion. Many

CCD students have jobs, families and other responsibilities outside of school; Program Advisors can also help students identify campus resources to help students succeed in college while managing their other responsibilities. To find the appropriate Program Advisor, students should visit the Academic Center that houses their program of study. These centers include:

- Center for Career and Technical Education
- Cherry Creek (South Classroom) Building, Room 201
- Center for Health Sciences - Lowry

Campus, Building 849

- Center for Language, Arts, and Behavioral Sciences - Cherry Creek (South Classroom) Building, Room 307
- Center for Math and Science - Science Building, Room 1003


## Faculty

CCD faculty are experts in their subject areas. Get to know them! Ask them about their own careers. They can tell students about jobs, salaries, and four-year colleges and universities where students can continue their education. Don't be afraid to ask questions.

## The Resource Center

The Resource Center's mission is to enhance the academic success of all students at the Community College of Denver. The staff are available to assist students throughout their whole journey - from application to graduation. The Resource Center provides students with guidance and information that are essential to creating and growing their "tool box" of strategies that will enhance academic success. The Resource Center provides resource linkages to programming via resources that will enhance the academic success of all students at CCD. The Resource Center also houses the First Year Experience Program which guides the transition into college for first-time college students. In addition, the Resource Center provides programming that coaches Denver Scholars to help ensure they keep their scholarships and maintain success as a college student. For more information, call 303-556-4964.

## TRIO Programs - funded by the U.S.

## Department of Education

## EDUCATIONAL OPPORTUNITY CENTER (EOC)

The Educational Opportunity Center (EOC) is a community service program that provides educational planning, information and assistance. Services are available on an appointment-only basis. These services, which are free and open to the general public, include:

- career counseling
- college/university admission
- vocational-technical school enrollment
- academic assessment coordination
- federal and state student financial aid application (FAFSA) assistance
- finding scholarships
- educational planning workshops

More information about services and appointments is available online at www.ccd.edu/eoc, by phone at 303-629-9226, or at the EOC office located in the Administration Building, Room 325 , on the Auraria Campus.

## STUDENT SUPPORT SERVICES (SSS)

The Student Support Services (SSS) program serves low-income, first-generation college students, and students with documented disabilities. The SSS staff and peer mentors provide students with many services including academic advising and course selection, financial aid application assistance, scholarship search assistance, career guidance and exploration, workshops on college and life survival skills, and much more. For more information, including a complete list of available services, call 303-556-4964.

## SUMMER BRIDGE PROGRAM

As part of SSS, prior to each Fall semester, a Summer Bridge Program is offered to participants, which provides a foundation for a successful college education. This program serves freshmen and returning students who enter CCD in either Summer or Fall semester. In this program, students prepare to take classes, learn about financial assistance, explore career options, participate in a variety of enrichment activities, and learn about student services at CCD. For more information, call 303-556-4964.

## ADMISSION

CCD has an open-door admission policy and accepts applicants 17 years of age or older. Admission to the college does not guarantee enrollment into a particular course or program.

## Application for Admission

Prior to enrolling at the college, applicants must complete an Application for Admission online at www.ccd.edu. Acceptance letters are sent by e-mail or by regular U.S mail.

## Re-admission (Former Students)

Former students who return after an absence of three consecutive semesters or more must reapply for admission. Re-admitted students will be subject to the requirements of the current catalog.

## Special Application Procedures

Select programs have a separate application process due to limited space and prerequisites designed to facilitate successful completion. Students need to review program requirements in this catalog and contact the appropriate Program Advisor for assistance with special application procedures.

## Underage Admission

Applicants under age 17 wishing to secure a waiver of the minimum age for admission must meet the following criteria:

- Applicants must demonstrate readiness for college level work by meeting all state established cut scores for college level English, reading and mathematics.
- Applicants must meet with the College Pathways Department or the Academic Advising Center (AAC) Director to determine eligibility for admission and appropriateness of course selection, review college expectations and complete the acknowledgment form.
- Applicant's parent or guardian must sign the acknowledgment form indicating that the parent has been advised regarding expectations of the college.


## International Student Admission ADMISSION REQUIREMENTS

Non-immigrant international students who wish to obtain a student visa ( $\mathrm{F}-1$ ) to study at the Community College of Denver must complete the following requirements:

1. Complete an Application for International Admission available on the CCD website.
2. Submit non-refundable application fee of \$20 (USD).
3. Submit official copies of high school and college transcripts (if available). All documents must be accompanied by a certified English translation.
4. Submit documents of financial support or bank statements showing a minimum balance of $\$ 27,500$ (USD) to cover expenses for each academic year. Students who have a sponsor must submit an Affidavit of Support along with financial documents. The affidavit is available on the United States Citizenship and Immigration Services (USCIS) website: www.uscis.gov.
5. Demonstrate evidence of English proficiency.

- Meet the minimum test scores on one of the following: Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS) or Michigan Test. For specific test score requirements, refer to the International Admissions website at www.ccd.edu.
- Successful completion of an intensive program of English-as-a-Second-Language (ESL) at an approved institution. Students are required to take the English Writing Test at CCD.

Note: This requirement can be waived for applicants who (1) have graduated from a U.S. high school, (2) have attended at least three semesters on a full-time basis at an Englishspeaking institution of higher education, or (3) are nationals of countries where English is the official language of instruction in the educational system.

- Students who test below the college level must enroll in developmental coursework.

6. Students transferring from a U.S college/ university must submit:

- Official transcript(s).
- Current financial statement(s).
- Passport and I-94 Arrival-Departure Record.
- Copy of Form l-20 issued by the institution from which they are transferring.

7. CCD will issue a Form $\mathrm{l}-20$ and an acceptance letter once all the requirements are satisfied.

## SUBMISSION OF APPLICATION MATERIALS

All required materials must be received by the application deadline.

- The application deadline for international students who are currently in the United States (an F-1 visa) is two weeks prior to the start of the term.
- The application deadline for students who are outside the United States is three months prior to the start of the term as shown below.

| Term | Application Deadline |
| :--- | :--- |
| Fall | June 1 |
| Spring | November 1 |
| Summer | March 1 |

Please send application materials to: Admissions, Registration \& Records Campus Box 201, PO Box 173363
Denver, CO 80217-3363
For express deliveries (UPS, FedEx, DHL,

## etc.), please use:

Admissions, Registration \& Records
South Classroom 133
1111 W. Colfax Ave., Denver, CO 80217
Tel: 303.556.3564 or 303.352.3300

## MAINTAINING F-1 STUDENT STATUS

- International students must maintain full-time enrollment and good academic standing with a grade point average (GPA) of 2.0 or higher.
- International students may not repeat classes which they have completed with a grade of $C$ or higher.
- Internships and/or off-campus employment may be recommended under specific circumstances with USCIS/DSO approval. Students are expected to notify the Designated School Official (DSO) of any changes that may impact their non-immigrant student status.
- New student orientation is mandatory for all international students.
- International students ( $\mathrm{F}-1$ ) are required to enroll in the college-offered health insurance program unless valid proof of comparable insurance coverage is provided.


## Denial of Admission

The college may deny admission to anyone whose background indicates that their presence would interfere with the function of the college or would endanger the health, safety, welfare or property of others. CCD has the right to deny admission or continued enrollment to anyone who has misrepresented their credentials or background.

## Privacy

In applying to CCD, students must act on their own behalf. Others may not access student information without the student's prior written approval (see Family Education Rights and Privacy Act on page 40).

## Immunization

All students must provide documented proof of immunization against Measles, Mumps and Rubella (MMR) to the Health Center at Auraria. For more information, please call 303-556-2525 or visit: www.msudenver.edu/healthcenter.

Students who do not comply with the immunization requirement will receive a registration hold. The hold will not be released until the student complies with the immunization requirement.

## Student Identification Number

A state law initiated in 2003 requires that each Colorado post-secondary institution assign to each student a unique ID number that cannot be a student's social security number. This number is the student identification number (SID). A social security number is required for financial aid, the College Opportunity Fund and for tax purposes.

## RESIDENCY DETERMINATION FOR TUITION CLASSIFICATION

Tuition classification is governed by state law (Title 23, Article 7, of the Colorado Revised Statutes of 1973, as amended) and by judicial decisions that apply to all public institutions of higher education in Colorado and is subject to change at any time. The college is required to apply the rules set forth in the law and does not have authority to make exceptions unless specifically permitted by law.

In-state status requires domicile in Colorado for one year prior to the first day of class. Domicile is defined as an individual's true, fixed, and permanent home and place of habitation. An individual may only have one domicile at any one time.

At the beginning of the one year period, individuals are expected to take appropriate actions to demonstrate the intent to remain in Colorado permanently. This includes, but is not limited to:

- surrendering legal ties with their former state of residence,
- obtaining Colorado Driver's License/ Identification within the statutory period,
- registering motor vehicle within the statutory period,
- registering to vote in Colorado,
- obtaining permanent employment in Colorado,
- filing income tax in Colorado,
- any other factors that document the individual's intent to establish a permanent home in Colorado.

Individuals are qualified to begin the one year domicile period upon reaching 22 years of age, and thus would satisfy the one year domicile requirement at 23 years of age. The one year domicile period also begins upon marriage or emancipation if the individual is under 22 years of age. Individuals under the age of 23 are eligible for in-state tuition if a parent or court-appointed legal guardian meets the requirements of the tuition law.

The tuition law recognizes the special circumstances regarding military personnel, honorably discharged veterans, Olympic athletes, inmates, and recent Colorado high school graduates or GED recipients. Eligible non-U.S. citizens must provide immigration documents, which may include, but is not limited to I-94 Arrival-Departure Record, Green Card or other required documents.

Active duty members of the armed forces, as well as their spouse and dependent children, whose permanent duty station is in Colorado will be charged in-state tuition, even if the permanent duty station changes, as long as the student (armed forces member, their spouse or dependent child) is continually enrolled in classes. Service members should contact their military base Education Office for documentation.

## INITIAL CLASSIFICATION

Students are classified as resident or non-resident for tuition purposes based on the information provided on the Application for Admission. Failure to answer all questions could lead to initial classification as a non-resident. After the student's status is determined, it remains unchanged in the absence of satisfactory evidence to the contrary.

## CHANGE IN TUITION CLASSIFICATION

New students who believe their initial tuition classification was based on incomplete information and wish to prove eligibility must submit an Amended Application Form by census date of the earliest part-of-term in which they are enrolled. Continuing students who attended and paid non-resident tuition or individuals emancipated prior to 22 years of age shall have up to 30 days from the first day of class to complete the Petition for In-State Tuition.

Information submitted to qualify for instate classification is subject to independent verification and will not be returned to students. Individuals submitting false information or falsified supporting documents are subject to both criminal charges and college disciplinary proceedings.

## APPEAL PROCEDURE

Students who are denied in-state tuition will not be allowed to drop courses after the census date. Students are responsible for dropping all courses by census date even if a decision on the Petition for In-State Tuition has not yet been received. Students who are denied in-state tuition may appeal the decision of the Tuition Classification Officer. The decision
of the appeals committee is final and will not be overturned by the Colorado Department of Higher Education (CDHE).

CCD reserves the right to correct tuition classification after the deadline in cases where the college believes an error was made.

For more information regarding residency and tuition classification, please visit the Colorado Department of Higher Education's website at www.highered.colorado.gov or contact the Admissions, Registration and Records Office at 303-556-2420.

## Western Undergraduate Exchange (WUE) Program

Students who are residents of Western Interstate Commission for Higher Education (WICHE) states may be eligible to request a reduced Western Undergraduate Exchange (WUE) tuition rate which is less than the non-resident rate. WICHE states include Alaska, Arizona, California, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming.

Students applying for the WUE program must provide evidence of domicile in the qualifying states and will be required to reapply for WUE each academic year.

Students are not permitted to apply time spent in the WUE program toward satisfaction of residency requirements for tuition purposes. Online courses are not eligible for the WUE tuition rate.

## House Bill 1023 Verification of Lawful Presence

House Bill 06S-1023 was enacted in July 2006 and requires the college to verify the lawful presence in the U.S. for each person 18 years of age or older who applies for a federal, state or local public benefit. These benefits include instate tuition, WUE tuition, the College Opportunity Fund, some types of state and institutional funding, and any other state funded benefits that entail any payment or financial assistance.

Applicants must complete an Affidavit of Lawful Presence stating that they are a U.S citizen or legal permanent resident or that they are otherwise lawfully present in the U.S. pursuant to federal law. They must also provide a valid form of identification specified in the law.

Students receiving in-state tuition who fail to meet verification requirements will be subject to non-resident tuition and removal of such benefits.

## ASSESSMENT TEST FOR PLACEMENT

The State of Colorado mandates that incoming students to Colorado's state-supported institutions of higher education complete a basic skills assessment test and enroll in appropriate courses based on the test outcomes. At CCD, students must complete the Accuplacer or secure an exemption before registering for courses.

## Basic Skills Assessment Test (BSAT)

Any student at CCD who wishes to enroll in courses must meet the assessment requirement by taking the Accuplacer exam. The purpose of assessment is to help students succeed by placing them in classes that are appropriate for their skill level. Based on the test results, an advisor will recommend appropriate classes to the student. The Accuplacer exam may include reading comprehension, sentence skills, essay writing and mathematics. The assessment test is computerized, untimed and requires approximately two hours to complete. See www.ccd. edu for study guides to review skills before taking the exam.

Students are required to meet minimum scores to enroll in specific classes. If the minimum scores are not achieved, this does not affect the student's admission to the college. The test scores for placement are available in the Academic Advising Center and the Testing Center.

## Other Ways to Meet the Assessment

## Requirement:

Students may be able to receive an exemption from taking all or part of the BSAT by showing proof of one or more of the following:

- ACT or SAT scores from within the past five years - ACT score minimum requirements: 17 in reading, 18 in English, and 19 in math. SAT score minimum requirements: 430 on critical reading for reading, 440 on critical reading for English, and 460 in math.
- Transcript of successful completion of an Associate of Arts degree, Associate of Science degree, Bachelor's degree, Master's degree or Doctorate degree from a regionally accredited institution.
- Successful (C or higher) completion of college level courses in English and/or math (less than 10 years old) at a regionally accredited institution.
- Successful (C or higher) completion of basic skills courses in reading, writing or math (less than 10 years old) from a regionally accredited institution.
- Appropriate Accuplacer scores from an approved institution from within the past five years. It is strongly recommended to take the assessment test again if scores are more than two years old.
- Sufficient scores on specific Advanced Placement Exams, International Baccalaureate Exams and/or CLEP Exams from within the past five years.
Please note that all submissions to the Testing Center must include the student's name, the institution, and the grades/scores as part of the transcript and be accompanied by a Transcript Intake Form. Differing names on the transcript and the student's account may require additional documentation. Unofficial transcripts are acceptable as long as the applicant has met the requirements.


## Credit for Prior Learning Exams

The CCD Testing Center offers the College-Level Examination Program (CLEP) tests and DANTES exams. Both nationally recognized tests allow students to receive college credit for learning acquired outside the traditional college classroom. See Credit for Prior Learning. on page 31.

## ACADEMIC ADVISING

## Academic Advising Center (AAC)

The Academic Advising Center (AAC) provides comprehensive services to assist students with developing an academic plan, understanding academic policies and procedures, discussing Accuplacer test results, obtaining accurate information and discussion about academic progression and degree requirements, and helping students access campus resources to increase their success. AAC is here to support students along the way; however, students are ultimately responsible for their own progress and understanding of CCD policies.

## Meet with the Right Advisor NEW STUDENTS

- Students who test into all college-level courses or who need only one developmental education course, see an advisor in the Academic Advising Center (AAC).
- Students who need to complete two or more developmental education courses (courses numbered below 100), see an advisor in the Center for Educational Development (CEA).


## CONTINUING STUDENTS

- Student can get program-specific advising with a Program Advisor in the appropriate center based on their intended program of study. See www.ccd.edu/Who Is My Program Advisor for a complete list.

CENTER FOR LANGUAGE, ARTS AND BEHAVIORAL

## SCIENCES, 303-556-2473

Anthropology, Art, Behavioral Sciences, Communication, Dance, English/Journalism/ Literature, Graphic Design, History, Human Services, Humanities, Music, Paralegal, Philosophy, Psychology, Sociology, Theatre, Women's Studies, World Languages

CENTER FOR MATH AND SCIENCES, 303-556-2460
Astronomy, Biology, Chemistry, Environmental Science, Geology, Mathematics, Nutrition, Science, Physics, Pre-Dental, Pre-Engineering, Pre-Health, Pre-Medical, Pre-Pharmacy, Pre-Physical Therapy, Pre-Physician Assistant, Pre-Veterinary Science, Science

## CENTER FOR CAREER AND TECHNICAL EDUCATION, 303-556-2487

Accounting, Applied Technology, Business (AA), Business Administration (AAS and Certificates), Business Technology, Computer Information Systems, Computer Science, Criminal Justice, Early Childhood Education, Economics, Education, Elementary Education, Engineering Graphics/ Drafting, Geography, Information Technology, Machine Technologies, Political Science, Welding, Associate of General Studies

## CENTER FOR EDUCATIONAL ADVANCEMENT, <br> 303-556-8455

Academic Achievement, Developmental English, Developmental Math, Developmental Reading, English-as-a-Second-Language, FastStart, Foundation Skills Institute (Formerly GED Institute)/ Adult Basic Education

## CENTER FOR HEALTH SCIENCES AT LOWRY,

## 303-365-8300

Computed Tomography (CT), Dental Hygiene, Electroneurodiagnostic Technology (END), Emergency Medical Services (EMT), Mammography, Nursing (PN), Nurse Aide, Radiation Therapy, Radiologic Technology, Veterinary Technology

## Declaring or Changing Program <br> of Study

Students should indicate their program of study when completing the Application for Admission. A student declares a program of study when first enrolling and should verify the program online via CCDConnect each semester. New students should consult this catalog or a General Studies Advisor to determine available programs of study.

Students may request to change to their program of study with the Admissions, Registration and Records office. All students are advised to meet with a Program Advisor or General Studies Advisor to discuss program requirements before changing their program of study. All Center for Health Sciences programs and most Career and Technical Education (CTE) programs require department approval in order for Admissions, Registration and Records to change a student's program of study.

Students should consult with Financial Aid and Veterans Affairs before changing their program of study as it may impact their eligibility.

## REGISTRATION

All new students must meet with the appropriate General Studies Advisor or Program Advisor. Students are required to register online through CCDConnect. Registration instructions and schedules are published online each semester or may be obtained at the Welcome Center, Admissions, Registration and Records Office, Academic Advising Center or from a Program Advisor.

## Prerequisite Requirements

If a course has a prerequisite, students must have certain knowledge to be successful in the course. The prior knowledge may demonstrated through a test score or a successful completion of a prior course (ex. must have completed ENG 060 with a grade of $C$ or better). Completion of the prerequisite is required prior to enrolling in the course, and U/D, U/F, D, F, SP or I grades are not acceptable. It is the student's obligation to know and meet course prerequisites as stated in the course description section of the CCD Catalog and the Schedule of Classes. Prerequisites will be checked at registration and the student may be required to provide proof of meeting prerequisites.


If the prerequisite requirements are for English, math, reading or English-as-a-SecondLanguage courses, the Testing Center must enter the basic skills test exemption on the student's record. This is required in order for the college to be in compliance with the Colorado Commission on Higher Education Statewide Remedial Education Policy, Section I, Part E. In addition, this will allow registration to take place.

If the prerequisite requirement is not for English, math or reading, students may request that the Testing Center also review previous transcripts from a regionally accredited college or university to approve and enter a prerequisite waiver. All requests for prerequisite waivers must be submitted to the Testing Center. Refer to the college schedule or program requirements for specific requirements. Most CCD courses require minimum basic skill assessment scores.

## Biology Prerequisite Requirement

Students intending to enroll in BIO 201 or BIO 204 are required to complete BIO 111 with a grade of $C$ or better or pass the Science Placement Test. Transfer students who have taken an equivalent college biology class should submit previous transcripts from a regionally accredited college or university to the Testing Center for approval of the prerequisite requirement. When submitting to the Testing Center, students must indicate that they would like a biology prerequisite override so the Program Advisor can be notified. Although the college can transfer in a BIO 111 course that is up to 10 years old for prerequisite waivers, some Center for Health Sciences programs require that BIO 111 must be completed no more than seven years prior to enrollment in BIO 201 or 204.

## Auditing Classes

By auditing a course, a student may participate in course activities, but does not receive a for-
mal transcript grade. Students must indicate intent to audit a course at registration or by the registration deadline listed in the course schedule. Students must pay for the course in full before an audit request will be processed. Once the audit has been approved, the course cannot be changed to a credited course.

Audited courses are not eligible for the College Opportunity Fund stipend. Students will be responsible for the full in-state or out-of-state tuition. Audited courses do not meet the credit hour requirements for financial aid or veteran benefits and may not be applied to certificate or degree requirements. Course credits for which an AU (Audit) grade is earned will not count in attempted hours and earned hours. No quality points will be assigned and there will be no impact on either the term or cumulative GPA.

## Maximum Course Load

Eighteen (18) credit hours is the maximum course load for all students. Students cannot register for more than 18 credits in any given semester without special permission from the Director of Academic Advising, Dean of Student Development and Retention or Center Dean.

## Add/Drop Classes

It is the student's responsibility to add or drop classes by the published deadline.

- Students can add classes to their class schedules up to the last day to register according to published deadlines.
- Students may drop classes for a full refund by the published census date for each class.

Dates are published each semester in the course schedule. Census dates vary so it is important to know if the course is a traditional 15 -week course (Fall and Spring term) or a traditional 10-week course (Summer term); all other census dates are specified in the course schedule. Census dates
can also be verified with a General Studies Advisor, Program Advisor or with the Admissions, Registration and Records office.

Students may be dropped for failure to pay their outstanding balance. Students who do not attend by census date may be dropped for non-attendance. Any student dropped after the last day to register will not be permitted back into the course.

Classes dropped before the census date will not appear on an official transcript. After the census date, students have the option to withdraw without a refund, up to the published last date to withdraw.

Financial aid recipients should check with the Financial Aid Office prior to dropping or withdrawing from any classes as this could affect their financial aid award and students may have to repay awards. Veterans should consult the VA Certifying Official prior to dropping a class as it may impact their educational benefits.

## Waitlist

Students may place their name on a waitlist when a course is at maximum capacity and closed for registration. CCD honors the order of the waitlist and extends enrollment availability to students via a notification email sent to their student email account in the order in which they appear on the list. Students on the waitlist are not automatically enrolled if a space in the course becomes available. It is the student's responsibility to register for the class via CCDConnect prior to the time deadline indicated in the notification email. No exceptions will be allowed for students who miss notification. Students may have less than 24 hours to register if the time deadline allowed overlaps the last day to register. Payment must be made in accordance with the payment policy. Faculty must honor the waitlist if there are openings in their class and cannot sign any students into a closed course.

## Withdrawals

Withdrawing from classes after census date will result in a grade of W. Withdrawal dates vary so it is important to know if a course is a traditional 15 -week course (Fall and Spring term) or a traditional 10 -week course (Summer term); all withdrawal dates are specified in the course schedule. Withdrawal dates can also be verified with a General Studies Advisor, Program Advisor or with the Admissions, Registration and Records office. No academic credit is awarded for a withdrawal. A withdrawn course will count in attempted credits.

Financial aid recipients should check with the Financial Aid Office prior to dropping or withdrawing from any classes as this could affect their financial aid award and students may have to repay awards. Veterans should consult with the VA Certifying Official prior to withdrawing from a course as it may impact their educational benefits.

## Inter-Institutional Registration

CCD and neighbor institutions Metropolitan State University of Denver (MSU Denver) and University of Colorado-Denver (UCD) have an inter-institutional agreement that allows CCD students to take select college-level courses at MSU Denver or UCD if space is available. Interinstitutional registration also allows MSU Denver and UCD students to take select collegelevel courses at CCD if space is available.

Online and off-campus/extended campus courses are not part of this agreement and students will not be permitted to register for these courses. For detailed instructions on how to register for inter-institutional courses, please refer to www.ccd.edu.

## CCD STUDENTS

The inter-institutional program allows students to register for classes at the host school (MSU Denver or UCD) and pay for tuition at CCD. CCD certificate or degree seeking students who want to take classes at MSU Denver or UCD must apply and register at MSU Denver or UCD and submit both the Inter-Institutional Application and Inter-Institutional Registration forms, which can be obtained at the CCD Admissions, Registration and Records office. Students who participate in the inter-institutional program are responsible for following the procedures and deadlines established by all institutions involved. CCD students are required to meet all MSU Denver or UCD course prerequisites prior to registration. CCD students may not register for more credits at MSU Denver/UCD than what they are registered for at CCD. MSU Denver or UCD may charge additional course fees. The student is responsible for paying these fees directly to MSU Denver or UCD.

In order to ensure that an inter-institutional course will transfer to CCD and apply towards the student's certificate or degree program, CCD encourages students to meet with an General Studies Advisor or Program Advisor prior to registering for an inter-institutional course. Inter-institutional course registration does not alter certificate and degree requirements. Students may be required to submit a Course Substitution Form in order to have inter-institutional courses apply to their program requirements for graduation.

## MSU DENVER AND UCD STUDENTS

The inter-institutional program allows students to register for classes at CCD and pay for tuition at MSU Denver/UCD. MSU Denver and UCD students are permitted to take classes at CCD by using the inter-institutional registration process. MSU Denver/UCD students must obtain an inter-institutional forms from their home institution (MSU Denver or UCD). These forms must be authorized by MSU Denver/UCD prior to acceptance at CCD. Students who participate in the inter-institutional program are responsible for following the procedures and deadlines established by all institutions involved. MSU Denver/UCD students are required to meet all CCD
course prerequisites prior to registration. MSU Denver/UCD students may not register for more credits at CCD than what they are registered for at MSU Denver/UCD. CCD may charge additional course fees. The student is responsible for paying these fees directly to CCD.

In order to ensure that an inter-institutional course will transfer to MSU Denver/UCD and apply towards the student's degree program, CCD encourages students to meet with a MSU Denver/UCD academic advisor prior to registering for an inter-institutional course.

## Metropolitan State University of Denver (MSU Denver) Developmental Students

CCD and Metropolitan State University of Denver (MSU Denver) have a developmental agreement which allows MSU Denver students to register for CCD developmental courses through MSU Denver. MSU Denver students registering for CCD developmental courses are required to follow all MSU Denver registration procedures and deadlines. Final grades will appear on both the CCD transcript and MSU Denver transcript.


If a student should transfer from MSU Denver to CCD, these courses will be included in the student's Satisfactory Academic Progress (SAP) calculation for financial aid at CCD.

## University of Colorado-Denver (UCD) Developmental Students

CCD and University of Colorado-Denver (UCD) have an agreement which allows UCD students to register for CCD's Intermediate Algebra (MAT 099) developmental course through UCD. UCD students registering for this course are required to follow all UCD registration procedures and deadlines. Final grades will appear on both the CCD transcript and UCD transcript. If a student should transfer from UCD to CCD, these courses will be included in the student's Satisfactory Academic Progress (SAP) calculation for financial aid at CCD.

## CCDCONNECT

CCDConnect is CCD's online student portal. Students are responsible for utilizing CCDConnect to:

- Read student email
- Register for classes
- Pay tuition
- Obtain financial aid information
- View grades
- Review degree progression via DegreeWorks
- Plus much more!

Step-by-step instructions for accessing CCDConnect are available by downloading an Enrollment Quick Guide at www.ccd.edu.



## TUITION AND FEES*

The State Board for Community Colleges and Occupational Education determines tuition, which is subject to change annually. Fees also can change. Tuition rates and refund deadlines vary for CCCOnline courses. Contact the Cashier's Office at 303-556-2075 with questions about CCCOnline tuition and payment. Updated information on CCD tuition and fees is online at www.ccd.edu under "Current Students."

* Rates are subject to change without notice.


## Tuition Rates per Credit Hour

(Academic year, 2011-2012)
Fees apply. See fee explanation below

|  |  |  | RESIDENT |  | NON-RESIDENT |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tuition | CoF <br> Stipend | Your <br> share | Tuition | COF <br> Stipend | Your <br> share |  |
| Standard Tuition | $\$ 174.75$ | $[\$ 62]$ | $\$ 112.75$ | $\$ 462.55$ | $-0-$ | $\$ 462.55$ |  |
| Differential Tuition |  |  |  |  |  |  |  |
| Dental Hygiene | $\$ 283.20$ | $[\$ 62]$ | $\$ 221.20$ | $\$ 462.55$ | $-0-$ | $\$ 462.55$ |  |
| Nursing | $\$ 226.30$ | $[\$ 62]$ | $\$ 164.30$ | $\$ 462.55$ | $-0-$ | $\$ 462.55$ |  |
| CCCICCD Online | $\$ 261.30$ | $[\$ 62]$ | $\$ 199.30$ | $\$ 303.75$ | $-0-$ | $\$ 303.75$ |  |

Fees and refund deadlines vary.

## Student Fee Chart

The following information is an explanation of fees per credit hour.

| Auraria Bond Fee | $\$ 35.95$ 1-3 Credit Hours |
| :--- | :--- |
|  | $\$ 49.75$ 4-6 Credit Hours |
|  | $\$ 66.30$ 7-11 Credit Hours |
| RTD Bus Pass Fee | $\$ 74.00$ 12 Credit Hours and Over |
| Student Activity Fees | $\$ 74.00$ Flat Per Semester |
| AHEC Resource Library Fee | $\$ 6.10$ Per Credit Hour |
| Clean Energy Fee | $\$ 4.40$ Per Credit Hour |
| Health Center Fee | $\$ 5.00$ Flat Per Semester |
| Immunization Fee | $\$ 24.00$ Flat Per Semester |
| Building/Renovation Fee | $\$ 2.00$ Flat Per Semester |
| Registration Fee | $\$ 6.00$ Per Credit Hour |



## Fee Descriptions

Students at CCD's Auraria Campus pay set fees that cover a variety of services and programs. CCD satellite campuses pay only the Student Activity Fee.
Auraria Bond Fee ( $\$ 35.95$ for 1-3 credits, $\$ 49.75$ for $4-6$ credits, $\$ 66.30$ for $7-11$ credits, $\$ 74.00$ for 12 credits or more): Auraria Campus students voted to approve a fee to pay off the bonds that funded construction on the Tivoli Student Union, Auraria Early Learning Center, campus health, physical education and recreation facilities. Students at all three Auraria institutions pay this fee.
RTD Bus Pass Fee ( $\$ 74.00$ per semester): The Auraria Student RTD Pass covers fares for local bus service in the Denver-metro area, Light Rail and all Express or Express Regional services. With the pass, students get a $\$ 3.75$ discount on all SkyRide routes. The pass is not valid for special services such as the BroncosRide, RockiesRide, Access-a-Ride or Guaranteed Ride Home.
Student Activity Fee ( $\$ 6.10$ per credit hour): This fee supports CCD Student Life staff and programs, including New Student Orientation and First Year Experience, CCD Student Government, The Campus Connection student newspaper, Student Handbook publication, child care scholarships, lending library, food bank, recreational activities, student events, Tivoli Student Computer Lab, Auraria Student Health Center, Gay, Lesbian, Bisexual and Transgender Student Services and the Phoenix Center at Auraria.
Auraria Higher Education Center Resource Library Fee (\$4.40 per credit hour): This fee supports Auraria Library functions.
Clean Energy Fee (\$5.00 per semester): This student-approved fee is for purchasing clean, renewable, electrical power for the Auraria Campus.
Health Center Fee (\$24.00 per semester): This fee enables all CCD students to have access to all of the medical, health and safety services offered by the Health Center.
Immunization Fee (\$2.00 per semester): This fee supplements the provision of immunizations on campus for CCD Students.
Building/Renovation Fee ( $\$ 6.00$ per credit hour): This fee supports the construction of the Student Learning \& Success Building and the renovation of South Classroom Building.

All CCD students pay the following fees:

- Registration Fee: The Colorado Community College System charges a mandatory \$12.05 per semester registration fee to students at all 13 of its colleges.
- Instructional Fees: CCD charges a $\$ 6.35$ per credit hour instructional program fee for high- and medium-cost classes. Other fees and charges may apply.


## College Opportunity Fund (COF)

The College Opportunity Fund (COF) provides a tuition stipend for in-state students completing undergraduate coursework at a public or participating private college. The amount of the per-credit-hour tuition stipend is set annually by the General Assembly and pays a portion of students' total in-state tuition.

In-state students must create a lifetime account at www.ccd.edu/cof and authorize the use of the stipend each semester through CCDConnect. Students who fail to apply and/or authorize the use of the COF stipend within the time allowed will be responsible for the full cost of their tuition.

## Tuition Refund Policy

Students may receive a refund of tuition and fees for any courses dropped by the census date or for any courses the college canceled. The census date for standard courses is listed in the Schedule of Courses or in the Academic Calendar online at www.ccd.edu. The census date varies depending upon the length of the course. Students should refer to their schedule of classes to determine the census date for each course. It is the student's responsibility to drop courses by the published deadline.

No refunds are given after the census date. Students receiving financial aid may have their aid adjusted and should check with the Financial Aid Office prior to dropping a course.

Students who are owed a refund will be required to pay for all courses added after refunds are issued. Account balances can be viewed and paid online at CCDConnect.

Prior to the census date, students may be dropped from their courses for failure to pay their outstanding balance or for non-attendance. If dropped prior to census, students are not responsible for the tuition for dropped courses. If dropped after census for non-payment or non-attendance, the student will not be permitted back into the course.

Military students who are called to active duty during the semester should talk to the Admissions, Registration and Records office to discuss the tuition refund policy.

## HigherOne

Students will receive all refunds through the HigherOne refund process. All enrolled students 17 years old and older will be mailed a HigherOne Refund Card. Upon the receipt of the card, the student must activate the HigherOne refund card and select the preferred method of payment. Students may select to have their refunds credited to their HigherOne refund card, may have their refunds credited to their existing bank account via ACH , or may request a paper check.

Students who are eligible for refunds may have their refunds credited electronically to their HigherOne refund card or bank within five to seven business days. HigherOne will mail checks to a student's home address within 21 days if a student selects a paper check.

## Extenuating Circumstance Appeal Process

The Extenuating Circumstance Appeals Committee may approve a late withdrawal and/or tuition credit for emergencies that exist beyond the student's control preventing compliance with the established dates and deadlines for that term.

- To receive an Extenuating Circumstance Appeal packet, students must first meet with their General Studies Advisor or Program Advisor.
- Students must submit a completed Extenuating Circumstance Appeal packet and supporting documentation by the end of the next consecutive semester for which they are appealing.
- The Extenuating Circumstance Appeal packet must include all required application forms and all supporting documentation. Completed Extenuating Circumstance Appeal packets will be reviewed and the student will be notified by CCD email or the phone number on file of the committee's decision within 30 calendar days. Written notification will also be mailed to the student's address on file.
- The appeal packet must include all required signatures to be considered.
- The Extenuating Circumstance Appeal will be denied if the student failed to comply with the deadline if the extenuating circumstance allowed for submission in a timely manner.
- If an appeal is denied, a student may request to have the appeal reconsidered by the committee, only if the student can supply additional documentation to support the extenuating circumstance. When a second review is requested, the decision made by the committee is final.
- Students who have received financial aid and are granted an Extenuating Circumstance Appeal may not receive refunds. Credit balances will be used to repay federal aid first. Contact the Financial Aid Office for more information.


## FINANCIAL AID

CCD uses the Free Application for Federal Student Aid (FAFSA) to determine a student's eligibility for all forms of student financial aid, including grants, scholarships, work study and loans. Some student financial aid awards are based on limited funding and are awarded on a first-come, first-served basis. For this reason, CCD encourages students to apply early each year (by April 15).

## Eligibility

In order to determine eligibility, students are advised to submit the FAFSA following the application process provided below. Eligible students must meet all of the following criteria:

- Be a citizen or eligible non-citizen of the United States.
- Be accepted for admission at CCD in a degree or eligible certificate program.
- Meet Ability to Benefit criteria:
- Students who first enroll in a program of study on or after July 1, 2012 must have a high school diploma or GED.
- Students who first enrolled in a program of study prior to July 1,2012 may qualify under previously existing rules for meeting Ability to Benefit criteria. Please check with the Financial Aid Office for any questions about this eligibility status.
- Be registered with Selective Service (male students only).
- Be in good standing at the college and meet Satisfactory Academic Progress (SAP) requirements.
- Not be in default on a student loan or owe a repayment of a federal grant.


## Other factors that impact eligibility:

- Students enrolled in programs that require fewer than 16 credits with less than 15 weeks of coursework are not eligible for financial aid.
- Students who have attempted more than 30 developmental education credits are not eligible for financial aid for additional developmental coursework.
- Developmental classes numbered 030 (ex. REA 030) are not eligible for financial aid.
- Students who have attempted a course more than twice may not be eligible to receive financial aid for the same course and are encouraged to contact the Financial Aid Office to determine eligibility.


## Eligible Non-Citizens

To qualify for financial aid as a non-citizen, a student must be able to provide documentation of one of the following to the Financial Aid Office:

- An Alien Registration Receipt Card (I-151 or l-551) or a Conditional Permanent Resident Card (I-151C)
- An Arrival-Departure Record (I-94) from the Department of Homeland Security showing any one of the following designations:
- Refugee, asylum granted
- Cuban-Haitian entrant
- Indefinite parole
- Citizen of the Freely Associated States - Republic of the Marshall Islands, Federated States of Micronesia, or the Republic of Palau (considered for grant aid and Federal Work Study only)


## Application Process

1. Apply for a PIN (personal identification number) online at www.pin. ed.gov. The PIN must be used each year to electronically sign the FAFSA. A dependent student must also have a parent apply for a PIN.
2. Complete the FAFSA online at www.fafsa.gov. The FAFSA becomes available on January 1 each year for the following Fall, Spring and Summer semesters. A student can estimate tax information in order to avoid a delay in processing. A student may also opt to "Link to the IRS" if taxes have already been filed. Students are advised to link their FAFSA to the IRS when possible.
a. Students who do not elect the "Link to the IRS" option may be required to submit a copy of federal tax transcripts to the Financial Aid Office.
b. In order to send the FAFSA to CCD, students can use CCD's school code: 009542.
3. Two to four weeks after completing the FAFSA online, the Federal Processor will send the student a Student Aid Report (SAR), outlining each response provided on the FAFSA. If necessary, students can use the PIN to make corrections to the FAFSA.
4. When CCD receives the student's FAFSA, the Financial Aid Office will send the student a Missing Information Letter, informing the student of additional required documentation in order to qualify for financial aid at CCD.
a. All required documentation must be submitted by April 15 in order for the student to be considered for priority awarding of first-come, first-served funding, including some grants, scholarships and work study funds.
5. When the student's file is completed in the Financial Aid Office, the student will receive an Award Notice.
a. The status of required documents is viewable and financial aid can be accepted online via the student's CCDConnect account.

## Types of Aid

The FAFSA not only determines a student's eligibility for financial aid but also determines the types of aid available to the student. Financial aid may be need-based or non-need-based, depending on the Estimated Family Contribution (EFC) as determined by the U.S. Department of Education.

Grants - All grants at CCD are need-based and do not need to be repaid. Award amounts and eligibility depend on EFC and enrollment status. Students do not need to attend full time to receive grant funds, if eligible.

Student Loans - Stafford loans are guaranteed by the U.S. Department of Education and do not require a credit check. Students must be enrolled at least half time to receive Stafford loans. Most Stafford loans must be repaid six months after the student is no longer enrolled at least half time (six or more credits) in an eligible program. Students who borrow their first Stafford loan between July 2012 and July 2014, however, must begin repayment after dropping below half time enrollment and do not qualify for the six month grace period. For additional repayment information, student can call 1-800-848-0979 or visit www.studentaid.gov.

Federal annual limits apply to loans, depending on the student's grade level and dependency status. To accept Stafford loans, students must accept the amount needed online via CCDConnect and complete an Entrance Counseling session and a Master Promissory Note (MPN). Students must also complete Exit Counseling when no longer enrolled at least half time.

Federal Stafford Subsidized Loan - need-based. Interest (3.4\%) is paid by the federal government on behalf of the student while the student is enrolled at least half time. Repayment begins six months after the student is no longer enrolled at least half time.
Federal Stafford Unsubsidized Loan - not need-based. Interest (6.8\%) accrues and capitalizes while the student is enrolled. While the student is not required to make payments on any Stafford loans while enrolled at least half-time, the student is strongly encouraged to make interest payments while in school.
Federal Direct Loans to Parents (PLUS) - Parents may borrow directly from the federal government on behalf of the student. Repayment typically begins within 60 days after disbursement. The parent has up to 10 years to repay the loan. Credit checks are required and not all loans are guaranteed. If a parent is denied a PLUS loan due to credit, the student may borrow additional unsubsidized Stafford loans.

Work-Study - Regardless of financial need as determined by the FAFSA, both Federal and Colorado Work Study may be available on a first-come, first-served basis. Students earn work study through part time employment on or off campus and must be enrolled at least half time to qualify. Students can gain employment experience in an area directly related to their field of study while being paid bi-weekly from an initial award through the Financial Aid Office.

Scholarships - A form of gift aid that does not need to be repaid. Scholarship criteria may include academic achievement, need, talent, special qualities or a combination of these factors. Institutional and community scholarships are posted on www.ccd.edu. Students apply annually between April and October.

## Cost of Attendance

The Colorado Department of Higher Education (CDHE) determines Cost of Attendance (COA) based on factors such as residency, living situation and program of study. A student's COA includes actual out-of-pocket educational expenses (tuition, fees, books and supplies) and estimated living expenses (room and board, transportation, medical and personal expenses). Students are not guaranteed to be offered enough financial aid to meet the COA due to federal limits. A student's financial aid also cannot exceed the COA.

## Sample Budget (actual amounts are subject to change)

| Resident | Per Year | Per Month |
| :--- | :--- | :--- |
| Living with parents | $\$ 13,791$ | $\$ 1,532$ |
| Living away from parents | $\$ 18,462$ | $\$ 2,051$ |
| Non-Resident | Per Year | Per Month |
| Living with parents | $\$ 21,561$ | $\$ 2,396$ |
| Living away from parents | $\$ 26,232$ | $\$ 2,915$ |

Students may request budget increases for certain expenses such as child care, a one-time computer purchase, or for medical expenses by contacting the Financial Aid Office. Such requests, if granted, do not guarantee the availability of additional funds.

## Satisfactory Academic Progress (SAP)

Federal regulations require all financial aid recipients to maintain Satisfactory Academic Progress (SAP) both prior to applying and during semesters aid may be received. In order to maintain SAP standards at CCD, students must earn a minimum 2.0 cumulative GPA and complete at least 67 percent of their coursework. SAP standards also require students to complete their degree/program within 150 percent of the published length of the program. All credit hours taken at CCD, including all credits attempted when not receiving financial aid and all transfer hours, are included in determining a student's SAP status.

## Financial Aid Repayment

Students are only eligible for aid for courses in which they establish attendance. If a student does not establish attendance in a class, the student is not only charged tuition and fees if the class is not dropped before the published census date but the student must also repay any aid that was released to the student.

Students receiving Title IV financial aid must complete at least one credit hour for each part of term for which aid is received. Students who do not successfully complete any courses within the class term and cannot document active participation in a course for over 60 percent of the class term must repay a portion of the financial aid received. Such students will also be responsible for repayment of any unearned grant aid to the federal government. CCD must report the amount owed to the U.S. Department of Education and the student will not be eligible to receive aid at any institution until the funds are repaid in full. The complete Return to Title IV policy is available online at www.ccd.edu.


CCD has policies and standards to help students know what to expect of CCD and what CCD expects of students. The following is a summary of the information students need to know. A General Studies Advisor, Program Advisor or anyone on the Student Affairs staff can help students understand these policies, standards and rights as a CCD student.

## ACADEMIC PROGRESS

All CCD students are expected to maintain satisfactory academic progress. The Academic Progress procedure applies to all students who have completed 13 or more college level credit hours while attending CCD. A student's cumulative Grade Point Average (GPA) is based on collegelevel courses completed at CCD. Summer semester counts as a term of non-enrollment.

CCD has established the following practices for measuring and notifying students of their academic standing.

## Standards and Practices

- A student is considered in "Good Standing" with a cumulative GPA of at least a 2.0.
- A student is placed on "Probation Initial" when a cumulative GPA is less than 2.0.
- A student is considered on "Probation Continuing" with a cumulative GPA less than 2.0 but the most recent term GPA is 2.0 or greater.
- A student is placed on "Suspension Initial" with a cumulative GPA that is less than 2.0 and the most recent term GPA is below 2.0. A student placed on "Suspension Initial":
- is not permitted to register for the next term after the term of suspension.
- may appeal the suspension due to unusual or mitigating circumstances. Granting of a student's appeal does not guarantee that the student will be permitted to enroll without a break in enrollment.
- when returning from "Suspension Initial," a student will remain on "Probation Continuing" and must complete the semester with a GPA of 2.0 or higher to continue enrollment.
- A student is again placed on "Suspension Second" when the cumulative GPA is less than a 2.0 and the most recent term GPA is less than 2.0 for the second time. A student placed on "Suspension Second":
- is not permitted to register for the next two terms following the term of suspension.
- may appeal the suspension due to unusual or mitigating circumstances. Granting of a student's appeal does not guarantee that the student will be permitted to enroll without a break in enrollment.
- when returning from "Suspension Second," will remain on "Probation Continuing" and must complete the semester with a GPA of 2.0 or higher to continue enrollment.
- A student is placed on "Suspension Third" when the cumulative GPA is less than a 2.0 and the most recent term GPA is below a 2.0. for the third time. A student placed on "Suspension Third":
- is not permitted to register for the next two calendar years.
- may appeal the suspension due to unusual or mitigating circumstances. Granting of a student's appeal does not guarantee that the student will be permitted to enroll without a break in enrollment.



## Academic Suspension Reinstatement Procedures

The Academic Suspension Reinstatement procedures require that a student meet with a General Studies Advisor or Program Advisor to obtain an Academic Suspension Reinstatement plan. Students must then follow these procedures:

1. Attach an unofficial copy of academic record.
2. Attach a DegreeWorks audit.
3. Attach a Letter of Appeal with supporting documentation outlining the circumstances that led to suspension.
4. Attach an academic plan for the semester the student plans on being reinstated.

## ACADEMIC RENEWAL POLICY

The purpose of academic renewal is to allow a student the one-time opportunity to remove a maximum of 30 semester credit hours of poor academic performance from the grade point average (GPA) calculation.

Academic renewal applies only to courses taken at CCD and may only be awarded once. The original grades and credits remain on the permanent academic transcript and credit hours are deducted from the student's remaining COF stipend eligible hours. A notation indicating "Academic Renewal Awarded" will be made on the official transcript and the grades will be excluded from the GPA. After being granted, Academic Renewal is irreversible. Credit excluded from the GPA calculation cannot be used to satisfy the requirements for completion of a certificate or degree.

The following conditions must be met to apply for Academic Renewal:

- Up to 30 hours can be excluded from GPA, but those grades will remain on student's transcript.
- The student cannot have been enrolled at CCD for two calendar years to be eligible for Academic Renewal.
- The student must be enrolled and have completed at least six semester credit hours with a minimum 2.0 GPA since returning to CCD.
- The Academic Renewal Form must include a General Studies Advisor's or Program Advisor's signature.
- Only grades of $D$ and $F$ are eligible for academic renewal and exclusion from GPA calculation.

A student concerned about a poor academic record is encouraged to meet with a General Studies Advisor or Program Advisor to discuss other academic progress options and strategies for academic success.

The Academic Renewal Policy is only applicable to CCD. Other institutions receiving a CCD transcript for transfer are not bound by CCD's policy and may choose to calculate the student's transfer GPA to include all grades, even those excluded by CCD under this policy.

Students applying for Academic Renewal are responsible for investi-
gating the potential impact of Academic Renewal on transfer admission, financial aid, veteran's benefits and other agencies and organizations.

## ACADEMIC INTEGRITY POLICY

Students at the Community College of Denver are expected to behave as responsible members of the college community and to be honest and ethical in their academic work. CCD strives to provide students with the knowledge, skills, judgment and critical thinking needed to function in society. To falsify or fabricate the results of one's research; to present the words, ideas, data, or work of another as one's own; or to cheat on an examination corrupts the essential process of higher education and is a disservice to the student, faculty and staff community. All members of the Community College of Denver community share the responsibility and authority to challenge and report acts of academic dishonesty.

## Guidelines for Academic Integrity

Students assume full responsibility for the content and integrity of the coursework they submit.

The following are guidelines to assist students in observing academic integrity:

- Students must do their own work and submit only their own work on examinations, reports and projects, unless otherwise permitted by the instructor.
- Students are encouraged to contact their instructor about appropriate citation guidelines.
- Students may benefit from working in groups. However, students must not collaborate or cooperate with others on graded assignments, examinations, or other academic exercises unless clearly directed to do so by the instructor.
- Students must follow all written and/or verbal instructions given by instructors or designated college representatives prior to taking examinations, placement assessments, tests, quizzes and evaluations.
- Students are responsible for adhering to course requirements as specified by the instructor in the course syllabus.


## Forms of Academic Dishonesty

Note: The Community College of Denver recognizes that when students make a good faith attempt to credit sources, some mistakes in citation format or use of quotations can be viewed as errors in form and mechanics rather than true academic dishonesty.

Actions constituting violations of academic integrity include, but are not limited to, the following:
CHEATING: intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.
Examples of cheating include, but are not limited to:

- Copying from another's assignment or receiving unauthorized assistance from another during an academic exercise or in the submission of academic material.
- Using a calculator, computer, or other materials when not authorized by the instructor.
- Collaborating with another student or students during an academic exercise without the consent of the instructor.

PLAGIARISM: intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise.
The following are considered to be forms of plagiarism:

- Word-for-word copying of another person's ideas or words.
- Interspersing one's own words within a document while, in essence, copying another's work.
- Rewriting another's work, yet still using the original author's fundamental idea or theory.
- Inventing or counterfeiting sources.
- Submission of another's work as one's own.
- Neglecting quotation marks on material that is otherwise acknowledged.

MISUSE OF ACADEMIC MATERIALS: the misuse of academic materials includes, but is not limited to:

- Stealing or destroying college or library reference materials, or computer equipment and/or programs.
- Stealing or destroying another student's notes or materials, or having such materials in one's possession without the owner's permission.
- Receiving assistance in locating or using sources of information in an assignment when such assistance has been forbidden by the instructor.
- Illegitimate possession, disposition, or use of examinations, test banks or answer keys to examinations.
- Unauthorized alteration, forgery, or falsification of academic records.
- The sale or purchase of examinations, papers, projects, or assignments.


## COMPLICITY IN ACADEMIC DISHONESTY: complicity involves knowingly contributing to another's acts of academic dishonesty.

FABRICATION: intentional and unauthorized falsification or invention of any information or citation in an academic exercise.

FACILITATING ACADEMIC DISHONESTY: intentionally or knowingly helping or attempting to help another to violate any provision of this policy.

MULTIPLE SUBMISSION: unauthorized submission of academic work for which academic credit has already been earned and when such submission is made without authorization.

## Penalties for Academic Dishonesty

If a student is found responsible for violating academic integrity policies, any one or a combination of the following penalties may be imposed by the faculty member, or by the faculty member and his/her supervisor:

- Verbal or written warning.
- Request to have student repeat assignment, project or examination in question.
- A grade of F for the assignment, project, examination or course.

The Provost or designee may also issue the following disciplinary sanctions, in accordance with the Student Conduct Code of Conduct:

- Disciplinary admonition and warning.
- Disciplinary probation with or without the loss of privileges for a definite period of time. The violation of the terms of the disciplinary probation or the breaking of any college rule during the probation period may be grounds for suspension or expulsion from the college.
- Suspension from the Community College of Denver for a definite period of time.
- Other disciplinary action as deemed appropriate may include, but is not limited to: referral to support services and/or programs; assignment of written apology or essay; participation in community service activities.


## Academic Dishonesty Complaint Procedure

1. The faculty member observing or investigating the apparent act of academic dishonesty documents the commission of the act by writing down the time, date, place and a description of the act.
2. The faculty member collects evidence, often by photocopying the plagiarized assignment and creating a paper trail of all that occurs after the alleged act of academic dishonesty. In most cases, the evidence will include various samples of the student's work showing a radical disparity in style or ability.
3. The faculty member provides the student an opportunity to explain the incident.
4. The faculty member explains to the student the procedures and penalties for academic dishonesty and gives the student a copy of CCD's Academic Integrity Policy and the Student Code of Conduct.
5. The faculty member may resolve the matter by determining an appropriate course of action, which may include a verbal or written
warning, a grade of F on an assignment, project, or examination or no further action. Note: Faculty should report all violations of academic integrity and the course of action taken to the Provost or his/her designee.
6. If the accused student contests the faculty member's decision, a meeting with the Center Dean may be requested to resolve this matter. Within 10 working days, the Dean will issue written notification of the decision to the student, faculty member and the Provost. The Dean's decision is the final step of the academic dishonesty complaint procedure.

For questions/comments regarding the contents or procedures of this policy, please contact the appropriate Center Dean on page 46 at the Community College of Denver, 303-556-2600.

## ACADEMIC STANDARDS

## CCD Curriculum Standards

Community College of Denver follows the Colorado state mandated common course descriptions, competencies and outlines for any course offered, regardless of the method of delivery. For online, hybrid and accelerated courses, CCD uses existing academic structures in the development of courses and curricula.

## Attendance

Attendance in all class sessions is critical for academic success. Regular and punctual attendance is expected, and each instructor will keep a complete record of student attendance for the entire length of each course. Students will be counted absent from missed class meetings, beginning with the first day of class. Faculty may report any student who does not attend the first 15 percent (census date) of the course and the student will be dropped and not be allowed to re-register for the course. Faculty may give a failing grade to any student who has missed at least 15 percent of a class, after the first class meeting. Students are responsible for properly processing a withdrawal from a class if they want to avoid receiving a failing grade.

Students must provide instructors with a valid reason for an absence in a timely manner. However, accommodations may not be made for missed course assignments, participation, quizzes, tests or class sessions. Students are responsible for learning the material that was taught during the absence and completing all class assignments.

The attendance policy for health sciences and other programs may differ because of clinical requirements or rules set by approving agencies.


## COMMON GRADING SYMBOLS

## CCD Grade Policy

Achievement in a course is measured by meeting specific course objectives. CCD students are evaluated using a letter-grade system. The following explains what each grade means. For more information, visit www.ccd.edu, consult the course syllabus or ask the instructor to explain their grading system.

## Colorado Community College System Inventory of Common Grading Symbols

| A | Excellent or Superior |
| :--- | :--- |
| B | Good |
| C | Average |
| D | Deficient |
| F | Failure |
| I | Incomplete |
| S | Satisfactory |
| U | Unsatisfactory |
| S/A | Satisfactory |
|  | (A-level) work in a developmental and remedial course |
| S/B | Satisfactory |
|  | (B-level) work in a developmental and remedial course |
| S/C | Satisfactory |
|  | (C-level) work in a developmental and remedial course |
| U/D | Unsatisfactory |
| U/F | (D-level) work in a developmental and remedial course |
|  | (F-level) work in a developmental and remedial course |
| W | Withdrawal |
| AW | Administrative Withdrawal |
| AU | Audit (No credit awarded) |
| SP | Satisfactory Progress |
| IP | In Progress |
| NC | No Credit |
| CPL | Credit for Prior Learning |

## I- Incomplete

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

If circumstances prevent the student from completing a test or assignments by the end of the term, then it is the student's responsibility to initiate the request for an Incomplete grade from the instructor. The instructor will determine whether the student has a reasonable chance of satisfactorily completing the remaining course activities in a timely manner. In the event that a student and instructor cannot reach resolution concerning an Incomplete, then the student should contact the Department Chair.

In requesting an Incomplete grade, the student must present the instructor with documentation of circumstances justifying an Incomplete grade. The instructor and student will sign an Incomplete Grade form and submit it to the Center Dean for approval. While waiting for the work to be completed, the instructor will assign an Incomplete grade on the grade roster.

Military personnel and emergency management officials who are required to go on Temporary Duty (TDY) during a term should contact their instructor for special consideration. Documentation of official TDY assignment is required and must be approved by the Provost.

Incomplete grades which are not converted to a letter grade by the instructor after one subsequent semester (not including summer semester) will become an $F$ grade unless a higher default grade has been assigned by the instructor.

To avoid duplicate payment of a course, students should not re-enroll in a class in which an Incomplete grade is pending, since according to the college's definition of enrollment, they are still enrolled.

## S - Satisfactory

The satisfactory grade is equivalent to a grade of $C$ or better. These grades are not included in the GPA calculation or in quality points. The course will count for attempted and earned credits.

## U - Unsatisfactory

The unsatisfactory grade is equivalent to a D or F grade. These grades are not included in the GPA calculation. The course will count in attempted credits, but will not carry earned credits.

## S/A, S/B, S/C

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

## U/D, U/F

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

## W - Withdrawal

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

## AW — Administrative Withdrawal

The AW or administrative withdrawal is assigned by the college when a student has been administratively withdrawn. No academic credit is awarded. The course will count in attempted hours. CCD only grants AW grades for extenuating circumstances that are documented, appealed and approved by the Extenuating Circumstance Appeal Committee.

## SP - Satisfactory Progress

The Satisfactory Progress (SP) grade is a temporary grade assigned only in some developmental and remedial courses. Students must have met course attendance requirements and successfully completed at least 60 percent of course work requirements. All course objectives must be complete before the end of the next consecutive semester, not including summer, or the SP grade will revert to a U/F. No academic credit will be awarded until the course is completed and the grade has been changed. The course will count in attempted credits, but will not carry earned credits.

To avoid duplicate payment of a course, students should not re-enroll in a class in which an SP grade is pending.

## Last Date of Attendance

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

## Repeat Field Indicators - I or E

Assigned for repeated courses on the student's transcript, an I will indicate include in earned hours and GPA calculation or E will indicate exclude from earned hours and GPA calculation.

## CREDIT HOURS

CCD follows the Colorado Commission on Higher Education recommendation that "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). Therefore, all courses including online, hybrid and accelerated are designed and facilitated so that students have the opportunity to devote enough time to meet course objectives.

As a general rule, for every hour spent in class, students should also plan to dedicate at least two hours (three hours for math/science courses) outside of class to study and complete assignments. When deciding on a course load, students should keep these time requirements in mind.

## Grade Appeals

Appeals regarding final grades should be initiated by the student within 60 calendar days after the date grades are posted for the semester in which the grade was awarded. Before making an appeal, the student should first discuss the grade with the instructor, and then if necessary, with the Department Chair. If there is no resolution, the student can appeal the grade by submitting a written statement to the Center Dean explaining the problem. The Center Dean will investigate and respond in writing within 15 days. The Dean's decision is the final step of the grade appeal process.

## Grade Point Average

Grade points measure a student's achievement for the credit hours completed. To calculate the GPA, multiply the number of grade points by the number of credit hours received for each course. Total the number of credits and the number of grade points separately. Divide the total grade points by the total credits.

| A | $=$ | 4 grade points |
| :--- | :--- | :--- |
| B | $=$ | 3 grade points |
| C | $=$ | 2 grade points |
| D | $=$ | 1 grade point |
| F | $=0$ grade points |  |

Note: All other grades (Satisfactory, Unsatisfactory, S/A, S/B, S/C, SP, I, W, $A U, A W, N C, U / D, U / F)$ are not calculated into the CCD GPA.

The following is an example of how to calculate grade point average:

| Course |  | Credits | Grade | Points |
| :---: | :---: | :---: | :---: | :---: |
| ANT 111 | Physical <br> Anthropology | 3 | A | $12=(3 \times 4)$ |
| BIO 111 | General College <br> Biology | 5 | A | $20=(5 \times 4)$ |
| CIS 118 | Introduction to <br> PC Applications | 3 | B | $9=(3 \times 3)$ |
| ENG 121 | English Comp I | 3 | D | $3=(3 \times 1)$ |
| POS 111 | American Gov- <br> ernment | 3 | F | $0=(3 \times 0)$ |
| Totals |  | $\mathbf{1 7}$ |  | $\mathbf{4 4}$ |

Total grade points divided by total credits equals the cumulative grade point average. Therefore, the grade point average for the above example is 44 divided by 17 for a 2.59 GPA.

Students may use DegreeWorks for GPA calculation assistance.

## Repeating Courses

All CCD college-level courses may be repeated at CCD. Each grade received will be listed on the transcript. The transcript notation will follow the course indicating that the course was repeated and designating whether the course will be included in the GPA. The highest grade will be used in the GPA calculation. There is no limit 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. Repeating a course may impact a student's financial aid eligibility. If 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. The Repeat Policy does not apply to courses transferred to CCD.

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 within program requirements. CCD will designate courses that may be repeated within program requirements.

If both the initial and the repeated course were taken in Fall 2006 or after, the system should automatically remove the lower grade from the GPA. If either the initial or the repeated course (or both) were taken prior to Fall 2006, then the student must complete a "Petition for Repeat Courses" form and submit it to the Admissions, Registration and Records Office. If students do not see the repeated designation, they may submit a"Petition for Repeat Courses" form to Admissions, Registration and Records.

## For Developmental Courses only:

The grading system for developmental courses changed beginning Fall 2006 and developmental grades are no longer included in the cumulative GPA calculation. However, if either the initial course or the repeated course (or both) were taken prior to Fall 2006, then the student must complete and submit a "Petition for Repeat Courses" form to the Admissions, Registration and Records Office in order for the developmental coursework to be reviewed.

## CCD CELEBRATES STUDENT SUCCESS

## Graduation Honors

Graduation honors recognize outstanding academic achievement throughout a student's academic career. The honors are awarded to students who complete the requirements for an associate degree, completing at least 30 credit hours with a 3.5 or better cumulative GPA at CCD. Only college-level courses completed with CCD will be included in the GPA calculation.

The three levels of recognition are defined as follows and will be posted on the students transcript:

- Cum Laude ("with honor") - 3.50 to 3.749 cumulative GPA
- Magna Cum Laude ("with great honor") - 3.75-3.99 cumulative GPA
- Summa Cum Laude ("with highest honor") - 4.0 cumulative GPA


## Semester Honors

CCD provides an opportunity for students to be recognized with Academic Honors, on a semester-by-semester basis. CCD has three recognized Academic Honors: Dean's List, Vice President's List, and President's List. Students who qualify will receive a notation for that term on their official transcripts. Students must complete a minimum of 12 college-level credits during the term to be eligible for this recognition.

Term GPAs required to qualify for these Term Academic Honors are as follows:

| Honor | Required Term GPA |
| :--- | :--- |
| Dean's List | $3.50-3.749$ |
| Vice President's List | $3.75-3.999$ |
| President's List | 4.0 |

## Phi Theta Kappa

Phi Theta Kappa is the international honor society for two-year community and junior colleges and recognizes student academic excellence, while promoting academic community through its Alpha Mu Mu chapter at CCD.

To be eligible for membership in Phi Theta Kappa, students must have at least a 3.5 grade point average after completing 12 or more credit hours of college-level work and carry three or more credit hours during the current academic year. Eligible students are invited to join each semester, becoming lifetime members.

Phi Theta Kappa members are honored at graduation for their outstanding academic achievements. Only Phi Theta Kappa members are eligible for over $\$ 37$ million in transfer scholarship money.

In Spring 2012, Alpha Mu Mu once again was designated as a fivestar Distinguished Chapter. Alpha Mu Mu has also earned the Pinnacle Award for the group's recruitment success and increased membership.

For more information, interested and eligible students should visit CCD Phi Theta Kappa's Facebook page, Alpha Mu Mu, or contact Student Life www.ccd.edu/studentlife at 303-556-2597 for the name(s) of the faculty advisor(s).

## GRADUATION REQUIREMENTS

## CCD Catalog Requirements for Graduation

This catalog is effective Summer Semester 2013 through Spring Semester 2014. First time students at Community College of Denver who are admitted during this period should use this catalog.

Continuing students who have not had a 12-month lapse in enrollment since first enrolling at CCD have the following "catalog of record" options for meeting their graduation requirements. Catalog in effect when the student:

- is admitted to CCD;
- first registers at CCD;
- submits a Program of Study Change Request form;
- or applies for graduation.

Students cannot combine major requirements from multiple catalogs for graduation purposes. The catalog of record can be used for only six years for degree programs and three years for certificate programs. Students who do not maintain continuous enrollment (attend at least one term during each 12 month period) must be readmitted and are subject to the catalog in effect beginning with the term for which they are readmitted.

CCD retains the right to cancel or change programs or course offerings where enrollments are insufficient or for any other reason. Each course listed in the catalog may not be offered every semester. Some courses are taught only when there is a demand for specific instruction to complete a major curriculum.

## Before Students Can Graduate

Degrees and certificates will be granted during the semester in which the final requirements are completed. Students need to apply for graduation by the published deadline.

An incomplete grade in a course required for graduation in the final semester will result in a denial for graduation and the student must submit a new graduation application by the following graduation deadline.

## Graduation Checklist

- Students are encouraged to meet with a Program Advisor to ensure certificate/degree requirements have been met.
- If applying for an AA, AS or AGS degree, students must submit a completed Graduation Application to Admissions, Registration and Records by the published deadline.
- If applying for a certificate or an AAS degree, Graduation Application and Department Chair Review forms must be submitted. Students should contact their Program Advisor before the published deadline to discuss completion of this paperwork. Graduation Applications submitted without a Department Chair Review form will be denied.
- Students requesting credit for previous college course work must
have all official transcripts sent to Admissions, Registration and Records and submit the Transfer Credit Evaluation Request form. The evaluation request form must be submitted prior to the end of the semester of graduation. Students must check their unofficial CCD transcript to ensure the transfer credit has been applied to their record.
- Credit for Prior Learning (CPL) may be applied toward a student's degree or certificate only after formal processing and granting of credit. The student must also receive approval to use CPL credit towards graduation. The CPL evaluation must be completed prior to the end of the semester of graduation.
- Diplomas will be printed with the name currently on record with CCD's student information system. All requests for name changes must be submitted to Admissions, Registration, and Records before or during the semester the graduation application was submitted.
- Each degree/certificate requires a separate Graduation Application and, if applicable, a Department Chair Review Form.
- An incomplete grade will result in a denied graduation.
- If the Graduation Application is disapproved for any reason, the student must reapply during the new semester of graduation. All application deadlines apply.
- Degree/certificates will be mailed to students approximately eight weeks after grades have posted for the semester of graduation. All financial obligations to CCD or other Colorado Community College System (CCCS) colleges must be cleared before a degree, certificate or transcript will be released. Diplomas will be mailed to the address currently on record with CCD's student information system.
- Commencement is held once a year in the spring semester. The Summer, Fall and Spring graduates are invited to participate. For more information regarding commencement, check www.ccd.edu or contact the Admissions, Registration and Records office.
- Diplomas that are returned to CCD due to incorrect address will be held for one year, after which they will be destroyed. Duplicate copies of diplomas may be requested for $\$ 25$ each.


## Associate Degree Requirements

All associate degrees have general education requirements that meet goals for general education established by the Colorado State Board for Community Colleges and Occupational Education. For additional information, please visit the Colorado Community College System (CCCS) website.

The diploma received at the time of graduation will list the degree only. The diploma will not list an area of emphasis, unless majoring in an Associate of Applied Science, Associate of Arts Degree with Designation, or Associate of Science Degree with Designation.

Associate degree applicants must meet all of the following requirements. The Department Chair and Center Dean may approve exceptions.

- Earn a cumulative grade point average of 2.0 - a C average - or better. All courses considered for graduation require a C or better. Students should check with their Center Dean, Department Chair or Program Advisor for information about these requirements as some programs may have higher GPA requirements. Only the Center Dean may approve exceptions for the minimum grade earned towards a degree.
- Complete a minimum of 60 semester hours of credit in approved course work.
- Complete a minimum of 15 credits at CCD within the selected program of study.
- Credit for Prior Learning will apply toward degree requirements, but not toward guaranteed transfer or residency requirements.
- CCD Online and CCCOnline (registration through CCD and CCD declared as home institution) courses will be included in residency hours.
- To obtain a second degree from CCD, a student must meet all degree requirements as well as complete 15 additional semester hours at CCD that apply towards the second program of study.
- No more than six semester hours of independent study course work can be applied toward an associate degree program.
- Special topics credit hours may be limited when applied towards a degree. In individual cases, the limit is determined by the program
area. Students are responsible for consulting with their Program Advisor before registering for special topics courses in order to determine how these credits apply toward a degree.
- Quarter hour transfer credits will be converted to semester credit hours using the formula one quarter hour credit $=2 / 3$ semester credit hour. Thus a four quarter credit course becomes 2.7 semester credits. For the purpose of awarding a degree, CCD will allow up to a one-credit course substitution per course for this insufficient credit, as long as the course substitution is not being used for a major course, an Associate of Arts Degree with Designation, or an Associate of Science Degree with Designation. Students with insufficient credit due to quarter hour conversions must speak with their Program Advisor to see if they qualify for a course substitution.


## Certificate Requirements

All CCD graduates for certificate programs must meet the following requirements. The program Department Chair and Center Dean may approve exceptions.

- Earn a C average or better in coursework included in the certificate program. All courses considered for graduation require a C grade or better unless otherwise approved. Check with the instructional center and Program Advisor for information about the minimum grade point average required for graduation as some certificates may have higher GPA requirements.
- Complete the specified requirements of an approved vocational/ technical program.
- Complete a minimum of 15 credits or 25 percent of the selected program of study at CCD.
- If required by program, complete the capstone course at CCD.
- CCD Online and CCCOnline (registration through CCD and CCD declared as home institution) courses will be included in residency hours.
- Quarter hour transfer credits will be converted to semester credit hours using the formula one quarter hour credit $=2 / 3$ semester credit hour. Thus a four quarter credit course becomes 2.7 semester credits. For the purpose of awarding a certificate, CCD will allow up to a one-credit course substitution per course for this insufficient credit, as long as the course substitution is not being used for a major course. Students with insufficient credit due to quarter hour conversions must speak with their Program Advisor to see if they qualify for a course substitution.


## Check Your Progress Toward Graduation

DegreeWorks (Degree Check) is a web-based degree audit and advising tool that allows students to view requirements for all degrees and certificates and see how completed credits apply towards a selected degree plan.

## How to do a Degree Check on CCDConnect:

1. Log into CCDConnect.
2. Click on the "Student" tab.
3. Click "DegreeWorks" in the "Steps to Graduate" box in the righthand column.

- The audit for your officially declared program(s) will appear in a new window.
- If you are pursuing multiple programs (i.e. a certificate and an Associate's) or have changed your major in a previous term, you can select the correct program from the "Program Type" drop-down box at the top of the page.
- Note: If you do not have a correct degree declared with Admissions, Registration and Records, submit a "Program Change Form." Allow seven business days for DegreeWorks to be updated with your corrected degree.

4. Print your DegreeWorks audit by clicking "Print" at the top center of the page.

To see how completed coursework will fit in another major, students can do a "What-lf" audit. On the left-hand side of the screen click on "What-lf" and a new screen will open:

1. Under the What-if "Program Type" select a degree option or click on
"Certificate" for any of the certificate options.
2. For "Academic Year" select the year you began your coursework or the current academic year.
3. If you have a specific "Program" or "Concentration" select that as well. Click the "Process What-If" button.

## TRANSFERRING CREDIT TO CCD

CCD adheres to the following guidelines and policies for the evaluation of transfer credit:

- CCD will only accept transfer credit from post-secondary institutions accredited by one of the six regional accrediting associations. Credits earned at nationally accredited or unaccredited institutions are not transferable to CCD
- CCCS has established a common course numbering system and guaranteed transfer agreement (GT Pathways) among Colorado state colleges and universities. The GT Pathways agreement guarantees the transfer of certain general studies courses. Colleges and universities outside Colorado are not considered part of the guaranteed transfer agreement or the common course numbering system. The common course numbering system and GT Pathways can be reviewed at www.cccs.edu.
- CCD will perform a transfer credit evaluation only after the student has declared a degree program and submitted both a Transfer Credit Evaluation Request form and official transcripts from all prior schools. Students are responsible for requesting official transcripts from their prior schools.
- Official transcripts from prior schools should be sent directly to the Admissions, Registration and Records Office, Campus Box 201, P.O. Box 173363, Denver, CO 80217-3363. For transcripts to be considered official, they must be sent directly from the other college or delivered in the original sealed envelope and marked "official."
- All received and/or evaluated transcripts become the property of CCD. Students must obtain their own copy of transcripts for testing and/or advising purposes.
- Transcripts are evaluated on a course-by-course basis. To be considered for transfer, courses must be offered at CCD or determined as equivalent to CCD courses. College-level classes that are not equivalent to CCD courses may transfer in as electives. Students must meet with their Program Advisor to determine if, and how, the accepted transfer credit will apply to their intended program.
- Only those courses that apply to the selected degree or certificate program will be transferred into CCD. Additional courses may be transferred in if they satisfy course prerequisites or if they are similar to required courses.
- Courses must have a grade of $C$ or better to be considered for transfer.
- Courses with a"pass" or "satisfactory" grade will only transfer if the official transcript or college catalog documents that a "pass" or "satisfactory" grade is equivalent to a grade of C or better.
- Credit for remedial, developmental, preparatory or non-college-level coursework is not transferable to CCD.
- Graduate and/or doctoral level course work will not automatically transfer into CCD. These credits must be approval from the instructional Center Dean or Department Chair.

Coursework older than 10 years will not automatically transfer into CCD. These will be reviewed on a case-by-case basis to ensure that the course is not obsolete and that the course content is equivalent to current offerings. Students are required to provide syllabi or course descriptions for applicable courses completed more than 10 years ago. Some individual programs have set time limits on certain prerequisite courses and transfer credits. For additional details, refer to the section Time Limits on Transfer Credits on page 31.

All credit is evaluated on the semester-hour basis. Credits from institutions which operate on a quarter system calendar are transferred by multiplying the quarter hours earned by two-thirds.

Transfer credit evaluations will only be assessed in person. The college will not provide any official evaluation via phone, e-mail or fax.

## Transfer of International Credits

- Students who have attended international institutions and want their transfer credits evaluated must first have the international transcripts translated and evaluated by a recognized member of the National Association of Credential Evaluation Services (NACES) and have an official copy of their course-by-course credit evaluation report sent directly to CCD.
- A complete list of approved NACES members can be found at: www. naces.org/members.htm.
- CCD will perform a transfer credit evaluation only after the student has declared a degree program and submitted both a Transfer Credit Evaluation Request form and an official copy of their NACES course-by-course credit evaluation report.
- Students may also be required to provide English-translated course descriptions for courses that they wish to have transferred.


## Time Limits on Transfer Credits

- Health Sciences - Science prerequisites for the Nursing, Dental Hygiene and Veterinary Technology programs must be no older than seven years.
- Business Technology - It is recommended that courses applied to Business Technology degrees and certificates be no more than five years old.
- Early Childhood Education - It is recommended that courses applied to Early Childhood Education programs be no more than seven years old.
- Computer Information Systems/Information Technology - To ensure student success, it is strongly recommended that courses applied to the Computer Information Systems or the Information Technology programs comply with the following time limits:
- Application courses - five years
- Programming courses - five years
- Networking/hardware courses - five years
- Certification courses - three years
- General education courses - 10 years
- Business courses - 10 years

Note: If the transferring student has current industry experience, the time limit recommendations for applicable courses may be waived. See the appropriate department chair.

## Transfer of Credits from Area Vocational Technical Schools to CCD

Students who complete the technical coursework contained in a stateapproved career and technical education certificate program at one of the four Area Vocational Technical Schools (AVTS) can take additional academic credit hours at CCD and earn an A.A.S. degree in Applied Technology. The four AVTS are: Emily Griffith Technical College, Pickens Tech Center, Delta-Montrose Area Vocational Technical Center, and San Juan Basin Technical College. Credits for a certificate completed at the AVTS are transferrable for an AAS in Applied Technology. In addition, some individual courses may be approved for transfer on a course-by-course basis and applied to selected degrees. Refer questions about the transfer of individual courses to the appropriate Program Advisor.

## Credit for Prior Learning

Students may earn credit for college-equivalent education acquired through prior schooling, work or other life experiences. Such prior learning must be comparable to CCD courses or curricula and must relate to the student's educational objectives. Credit for prior learning may be earned through standardized tests, challenge exams, published guides or portfolio assessment.

## - Standardized Tests

- Advanced Placement Program (AP) - Students can receive credit through AP examinations completed while in high school.
- International Baccalaureate (IB) - CCD recognizes the International Baccalaureate program and accords special consideration
for students presenting IB credentials on an individual basis.
- College Level Examination Program (CLEP) - The College Level Examination Program (CLEP) is a series of examinations in 34 introductory college subjects. CCD recognizes selected CLEP general examinations and subject examinations. CLEP examinations may be taken at the CCD Testing Center.
- DANTES Subject Standardized Tests (DSST) — Most DSSTs are recognized by CCD as acceptable tests for college credit. DSSTs may be taken at the CCD Testing Center.
- To receive college credit, students who take any standardized test must request that their scores be sent to CCD. A complete list of acceptable AP, IB, CLEP and DSST exams along with cut-off scores and CCD course equivalencies can be found online at www.cccs.edu.
- Challenge Examinations: Currently enrolled students may challenge most courses by taking a comprehensive examination. Only one exam for a particular course may be arranged. The cost for a Challenge Exam is 50 percent of the current tuition rate for the course being challenged.


## - Published Guides

- ACE-Military - CCD uses the credit recommendation 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-Non-Collegiate - CCD uses the credit recommendations from the ACE program on Non-Collegiate Sponsored Instruction, as published in the National Guide to Educational Credit for Training Programs, to evaluate industrial and corporate training programs.
- Portfolio of Learning Outcomes: Currently enrolled students may petition for credit by developing a portfolio that describes and documents pertinent learning experiences comparable to those available in CCD courses. A faculty member in the appropriate program area evaluates the portfolio and determines what, if any, credit will be given. Only one portfolio evaluation for a particular course will be arranged during any one semester. The cost for a portfolio evaluation is 50 percent of the current tuition rate for the course being challenged.

A student may use Credit for Prior Learning to fulfill all degree/certificate graduation requirements except for the mandatory 25 percent residency requirement. For more details on Credit for Prior Learning options, contact the Credit for Prior Learning Coordinator in the Academic Advising Office, 303-556-2481.

Note: Credit evaluated for general acceptance may or may not be applicable to specific degree or certificate programs. At least one CCD credit hour must be transcribed on a student's record before any Credit for Prior Learning is awarded.

## TRANSFER OPTIONS

## Transferring to Four-Year Institutions

CCD's Associate of Arts (AA) and Associate of Science (AS) degrees are guaranteed* to transfer to Colorado public four-year colleges and universities. Students with AA and AS degrees enter four-year institutions as juniors. In some circumstances, an Associate of Applied Science (AAS) or Associate of General Studies (AGS) degree may transfer.

If students intend to transfer, it is very important to become familiar with the requirements of the school they plan to attend as early as possible. For more information, consult the Transfer Success Center (TSC), a Program Advisor or the Academic Advising Center (AAC).

TSC has reference catalogs, transfer guides and application materials from Colorado's four-year colleges and universities, as well as catalogs from several out-of-state, four-year colleges and universities. To get additional information visit TSC online or call 303-556-2461.

Visit the Colorado Community College System (CCCS) at www.cccs. edu/EdServices/Transfer.html for links to some of the four-year institutions that have articulation or transfer agreements with CCD. Additional informa-

tion about statewide guaranteed transfer and articulation agreements is available at the Colorado Department of Higher Education website.

Representatives from four-year colleges and universities visit CCD regularly. Information about campus visits can be acquired in the TSC office or call 303-556-2461.

## $60+60$ Transfer

For students who complete an Associate of Arts (AA) or Associate of Science (AS) degree, 60 credit hours of the AA or AS degree are guaranteed to transfer to a Colorado public four-year school, once the student has been accepted for admission. Students may be able to finish a Bachelor of Arts or Bachelor of Science degree within another 60 credit hours. This is called a $60+60$ transfer plan. Note that some bachelor's degrees require more than an additional 60 credits to complete. When in doubt, students are encouraged to speak to an Advisor.

* See a General Studies Advisor in Academic Advising Center (AAC) or a Program Advisor in the appropriate Academic Center as soon as possible for a list of applicable degrees. If students have not selected a major or are unsure of which Program Advisor to see, they should visit the AAC and someone will assist them in locating the correct Program Advisor for their degree plan. CCD has special articulation, or transfer, agreements. Please see Statewide Transfer Degree Programs on page 48 for additional information.

Certain majors require that students take essential lower-division prerequisites before transfer to a four-year institution. Students should contact their Program Advisor for help in selecting lower division credit hours and for additional information regarding transfer to a four-year degree.

Credit for Prior Learning, such as CLEP and Advanced Placement, that is approved by CCD and applied towards an AA or AS degree is not guaranteed to transfer. The transferring institution will evaluate these credits according to its own policies. Transfer credits from other institutions and the age of credits may also change the guarantee of transfer under the $60+60$ transfer plan.


## ACADEMIC SUPPORT CENTER (ASC)

CCD's Academic Support Center provides individual tutoring and software programs that help students to develop effective strategies to achieve academic success. ASC tutors address students' individual learning needs in the following areas:

- English-as-a-Second-Language (ESL) tutors help with pronunciation, conversation, grammar, reading and other subject areas such as math, biology, chemistry and computer science. The ESL Lab provides computers with language-learning software.
- Foundational Skills Lab (Colorado High School Equivalency Diploma) instructors prepare students to pass the GED tests and earn a Colorado High School Equivalency Diploma in the Foundational Skills Institute (formerly GED Institute) Lab.
- Mathematics tutors help students gain greater experience with math principles and practice skills using online computer tutorials, course videos, specialized workshops and study groups.
- Reading and Study Skills tutors help students strengthen reading, note-taking, organization and test-taking skills.
- Writing tutors help students plan, compose and revise their college papers.
- The Online Writing Lab (OWL) is a resource to help students with writing assignments. Students can submit a paper or a specific writing question to the lab and a tutor will respond with comments within 48 hours. Visit OWL online at www.ccd.edu/ ccd.nsf/html/WEBB8CEESG-OWL


## ACADEMIC TECHNOLOGY CENTER (ATC)

The Academic Technology Center, located in TE 104, provides access to computers for all students. Students can access e-mail, print class work, access Desire2Learn (D2L) for online classes, get help with programming, software support and help with CIS class work assignments. Students may check out course materials or headsets with a valid student ID.

## ACCESSIBILITY CENTER

The Accessibility Center provides accommodations and services to students with documented disabilities in order to provide equal access all programs, services and activities offered at CCD. Students with documented disabilities who need reasonable accommodation to access their courses and college activities should notify the Accessibility Center to apply for services
and accommodations including: sign language interpreting, alternative media production, note taking, assistive technology, ADA classroom furniture assistance and extended time on tests.

More information is available online at www.ccd.edu/accessibilitycenter, by phone at 303-556-3300 or by fax at 303-352-3003.

CCD complies with and fully supports Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA), including changes made by the ADA Amendments Act of 2008, regarding nondiscrimination on the basis of disability (documentation required). Refer questions concerning these acts to Rhonda Pylican, Director of Human Resources, ADA/Sec 504 Coordinator, Administration Building, Room 310, Campus Box 240, P.O. Box 173363, Denver, CO 80217-3363, Telephone: 303-352-3037, or to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Blvd., Suite. 300, Denver, CO 80204-3582 or www.ed.gov/ocr/know.html.

## AURARIA EARLY LEARNING CENTER

The Auraria Early Learning Center offers childcare for students, faculty and staff on the Auraria Campus. It is fully licensed by the Colorado Department of Human Services and rated by Qualistar. The center has 250 spaces for children ages one to six. During the summer semester, a summer camp program is offered for children up to eight years of age.

More information is available online at www.aurariaearlylearning.org or by calling 303-556-3188.


## AURARIA LIBRARY

The Auraria Library provides a wide range of learning resources, research services and study environments to support student learning. The Auraria Library collection contains nearly one million print books and e-books, more than 65,000 print and e-journals, and media including CDs, DVDs, and streaming videos. Nearly 300 databases provide access to full-text articles, journal citations, images, statistics, legal and business data, and a multitude of other disciplines. These materials can be found at the Auraria Library website, www.library.auraria.edu.

Students can visit the "Ask Us Desk" for assistance with basic research questions, to borrow items for a class (Course Reserves) or from the library's collection, to request materials from regional libraries via Prospector or from national libraries via interlibrary loan and more. Self check-out machines are available to expedite borrowing library books. For more in-depth research questions, visit the "Research Help Desk" or go to the "Ask A Librarian" website www.library.auraria.edu/services/researchhelp where students can contact librarians who are able to assist them via walk-in, appointment, phone, email, IM or text message.

For more information about Auraria Library services, call 303-556-2639.

## CAMPUS RECREATION AT AURARIA (CRA)

Campus Recreation at Auraria (CRA) provides comprehensive fitness, recreational and leisure programs to the students, staff and faculty of the Community College of Denver. CRA is located in the PE Event Center which includes a competitive size pool, fitness centers, racquetball, squash, dance studio, basketball courts and locker facilities.

More information, including facility and activity schedules, is available online at www. mscd.edu/campusrec, by calling 303-556-3210 or visiting PE 108 in the Event Center.

## CAMPUS TOURS

Campus Tours are available to prospective students and their families. Individual or group tours are available. Campus Tours include an informal presentation about CCD services and a tour of the Auraria Campus. Campus Tours can be scheduled online at www.ccd.edu/tours or by contacting Recruitment and Student Outreach at 303-352-3079.

## CAREER DEVELOPMENT CENTER (CDC)

The Career Development Center (CDC) helps students find their career and academic path and gain career experience and also assists with job search preparedness skills, such as resume writing and interviewing. CDC provides career workshops and advising sessions. CDC maintains the "Career Connections" database, which is an online site for students to find part-time and Work Study jobs while attending CCD, as well as internships and full-time jobs after graduation.

More information on the Career Development Center is available online at www.ccd.edu/ career or by calling 303-352-3306.

## CHILDREN'S COLLEGE LAB SCHOOL

The Children's College Lab School is the practical component of studies for students enrolled in the Early Childhood Education programs at the Community College of Denver. The Children's College Lab School provides opportunities for students to engage in the modeling of developmentally appropriate practices and current research in the study of child growth and development. Master teachers work with students in preschool classrooms.

Children two and a half through five years of age are enrolled in preschool classrooms fully licensed by the Colorado Department of Human Services. The program is open to the community, with priority to CCD students, faculty and staff. Hours of operation are Monday through Friday, 7:30 a.m. - 5:30 p.m., with competitive tuition rates. The Children's College Lab School has a 4-star Qualistar rating, attesting to the level of excellence within the program. More information is available by calling 303-556-2439.


## COLLEGE PATHWAYS

College Pathways is CCD's concurrent enrollment program. Concurrent enrollment students can take CCD classes at their high school campus as well as the Auraria campus and college credits may be used for high school credits.

The Concurrent Enrollment Programs Act of 2010 is intended to broaden access to and improve the quality of concurrent enrollment programs, improve coordination between institutions of higher education, and ensure financial transparency and accountability. This legislation also established the ASCENT program to allow students who have met the graduation requirements of their high school, have earned a minimum of twelve transferable college credits, and are deemed college-ready to complete a year of college while enrolled in a fifth year of high school.

For more information, students should contact either the professional school counselor at their high school or the director of College Pathways at 303-352-3301.

## EDUCATIONAL OPPORTUNITY CENTER (EOC)

The Educational Opportunity Center (EOC) is a community service program that provides educational planning, information and assistance. Services are available on an appointment-only basis. These services, which are free and open to the general public, include:

- career counseling
- college/university admission
- vocational-technical school enrollment
- academic assessment coordination
- federal and state student financial aid application (FAFSA) assistance
- finding scholarships
- educational planning workshops

More information about services and appointments is available online at www.ccd.edu/eoc, by phone at 303-629-9226 or at the EOC office located in the Administration Building, Room 325, on the Auraria Campus.

## FASTSTART

Students who require developmental courses in reading, English and/or math can participate in a FastStart Learning Community to help them accelerate through those classes. FastStart students can take a variety of pairings: two or more levels of developmental reading and English, two levels of developmental math, or a reading or English course paired with a transfer level course.

FastStart provides students with supportive, interactive instruction throughout the semester and an opportunity to share their knowledge and experiences with other students in the learning community setting. A Program Advisor, with help from student ambassadors, monitors FastStart students' progress and refers them to the services they might need to succeed.

More information is available online at www. ccd.edu/faststart or by calling 303-352-3355.

## FOUNDATIONAL SKILLS INSTITUTE (FORMERLY GED INSTITUTE)

The Foundational Skills Institute (formerly GED Institute) conducts GED preparation and Eng-lish-as-a-Second-Language (ESL) classes. More information, including locations, class schedules and admission requirements is available online at www.ccd.edu/ged or by calling 303-556-3805.

## GAY, LESBIAN, BISEXUAL AND TRANSGENDERED (GLBT) STUDENT SERVICES at AURARIA

Gay, Lesbian, Bisexual, and Transgendered (GLBT) Student Services at Auraria provides the following services to the Auraria campus:

- Support Services - Addresses issues concerning coming out, AIDS, relationships, transphobia, homophobia, etc. for GLBT students, friends and families.
- Advocacy - Supports GLBT students in discrimination and harassment situations and works to improve the advocacy system on campus.
- Resource Center - Provides information related to GLBT issues to students, faculty and staff.
- Speaker's Bureau - Provides speaker training for student volunteers and schedules speaking engagements for campus classes and events.
- Special Events - Offers GLBT Awareness Month, LGBTQIA Development, Welcome Back receptions, leadership training, panels, speakers and entertainment.

More information is available online at www. glbtss.org, by phone at 303-556-6333 or by visiting the GLBT Student Services office located in the Tivoli Student Union, Room 213.

## HEALTH CENTER AT AURARIA

CCD students who are enrolled in at least one credit hour and have a current student ID are eligible for services at the Health Center at Auraria. The facility is staffed by physicians, physician assistants, nurse practitioners, radiology technologists and medical assistants. The Health Center provides low cost services. This includes, but is not limited to, immunizations, treatment of illness and injuries, lab testing, medications, physical exams, annual gynecological exams, sexually transmitted disease information and testing, birth control information/services, minor surgery, cholesterol screening, HIV testing, blood pressure checks, casting, suturing and X-rays.

Payment is required at time of service. While student health insurance is not required to use the Health Center at Auraria, the facility is an in-network specialty provider for Blue Cross/ Blue Shield (BC/BS) insurance. BC/BS members should have their $B C / B S$ card available when seeking care. Free health related classes are also offered to students each semester.

Walk-in services begin at 8 a.m., Monday
through Friday. Access is on a first-come, firstserved basis. The daily closure time for walk-in care varies depending on when all patient slots are filled. Patients are encouraged to check in as early as possible.

Students who have concerns about infectious diseases should contact the Health Center. The college will follow procedures defined by the Colorado Department of Human Services to ensure the health and safety of all students, faculty and staff.

More information is available online at www.mscd.edu/student/resources/health or by calling 303-556-2525. The Health Center at Auraria is in the Plaza Building, Suite 150, on the lower level.

## HEALTH INSURANCE

CCD students may purchase an accident and sickness insurance plan after registering for classes. More information is available through CCDConnect on the Student Tab or by calling the Admissions, Registration and Records Office at 303-556-2420.

## PARKING AND TRANSPORTATION SERVICES AT AURARIA

Parking is available in daily fee lots ranging in price from $\$ 2.50$ to $\$ 10.00$. There are two parking garages that are available for a daily fee: the 7th Street Parking Garage (located at Seventh Street and Lawrence Way) and the Tivoli Parking Garage (located north of the Tivoli Student Union). A limited number of monthly permits are available for other lots around campus and are sold at the beginning of each semester. Four-hour parking meters are available for student use in various locations around campus. For parking meters, student should use nickels to get the maximum number of minutes.

Prospective students who come to the Auraria Campus for services may park in the Tivoli Parking Garage and get their parking tickets validated. Once registered, students no longer are eligible for parking validation.

Parking and Transportation Services also offers the following services:

- carpool parking discounts.
- free on-campus transportation for disabled students on the wheelchair-accessible Handivan.
- free campus shuttle service for evening students on the Auraria Night Rider Service (Monday through Thursday, dusk to 10 p.m.).

More information, including parking maps and fee information, is available online at www. ahec.edu/parking, by calling 303-556-2000 or visiting The Parking Office, located on the first floor of the 7th Street Parking Garage.

## THE PHOENIX CENTER AT AURARIA

The Phoenix Center at Auraria provides education, training and resource referral for issues of interpersonal violence (IPV) along with 24/7 response and support services. All services are free and confidential for CCD students, staff and
faculty. The Phoenix Center at Auraria does not discriminate and provides services to all who need them. Individuals who have experienced IPV (whether recently or in the past) can contact the Phoenix Center at Auraria for emotional support and to discuss options and available resources. The Phoenix Center at Auraria also provides academic advocacy and facilitates discussions to assist students in feeling safe on campus.

More information is available online at www.thepca.org, by calling 303-556-601 or by visiting the Phoenix Center at Auraria in the Tivoli Student Union, Room 227. A 24/7 helpline is available at $303-556-$ CALL (2255).

## THE RESOURCE CENTER

The Resource Center's mission is to enhance the academic success of all students at the Community College of Denver. The staff are available to assist students throughout their whole journey - from application to graduation. The Resource Center provides students with guidance and information that are essential to creating and growing their "tool box" of strategies that will enhance academic success. The Resource Center provides resource linkages to programming via resources that will enhance the academic success of all students at CCD. The Resource Center also houses the First Year Experience Program which guides the transition into college for first-time college students. In addition, the Resource Center provides programming that coaches Denver Scholars to help ensure they keep their scholarships and maintain success as a college student. For more information, call 303-556-4964.

## STUDENT LIFE

Student Life provides opportunities for personal and social growth outside of the classroom. Student Life offers a variety of services including:

- referrals for day care, health, housing and employment services
- in-house food bank and textbook lending library to help students who are struggling financially
- CCD Student Government
- The Campus Connection (the student newspaper)
- student organizations and clubs
- leadership training
- overseeing student conduct procedures

More information is available online www.ccd. edu/studentlife, by calling 303-556-2597 or by visiting Student Life on the third floor of the Tivoli Student Union, Room 309.

## TESTING CENTER

The Testing Center offers a variety of testing services, including:

- Basic Skills Assessment Test (BSAT) for English, reading and math placement.
- Placement exams for Spanish, French and biology.
- Credit for Prior Learning tests, such as CLEP
and DANTES.
- Licensure exams and entrance exams, such as the Graduate Record Exam (GRE) and Test of English as a Foreign Language (TOEFL).
- GED testing.
- Test proctoring for CCD and distance learning students.

More information is available online at www.ccd. edu/testing or by calling 303-556-3810.

## TRANSCRIPT REQUESTS

Students may request copies of their CCD academic records from the Admissions, Registration and Records office. All transcripts must be requested in writing or ordered online through their student account at www.ccd.edu.

Transcripts will not be released for students who have financial or academic holds on their accounts. This includes past due balances and other financial obligations due to CCD or any other Colorado Community College.

The cost of transcripts depends on the service option selected by the student. See chart for available service options and charges. Payments may be made by cash, check or credit card and are due at the time of the request. Processing time does not include delivery time. Transcripts are processed within the time specified, sent to the Auraria campus mail room and forwarded on to USPS.

Transcripts requested for pick-up will be destroyed if not picked up within one month.

## Service Options Available

| Service <br> Option | Processing <br> Time | Service <br> Charge |
| :--- | :--- | :--- |
| Normal <br> processing | Within 3-5 <br> working days | Free |
| Next <br> working <br> day | By end <br> of next work- <br> ing day | $\$ 5.00$ each |
| Rush | Same day | \$15.00 each |
| Express Mail |  <br> sent via USPS <br> Express Mail | $\$ 25.00$ each |

## TRANSFER SUCCESS CENTER (TSC)

The Transfer Success Center (TSC) provides services, tools and resources designed to support students to transfer to any four-year college or university. Specific service areas include:

- transfer advising and planning
- tours to four-year institutions
- college fairs
- monthly recruiter visits from in-state and out-of-state colleges
- transfer sessions, events and activities

More information is available online at www. ccd.edu/transfer or by calling 303-556-2461.

## TRIO PROGRAMS

Funded by the U.S. Department of Education

## EDUCATIONAL OPPORTUNITY CENTER (EOC)

The Educational Opportunity Center (EOC) is a community service program that provides educational planning, information and assistance. Services are available on an appointment-only basis. These services, which are free and open to the general public, include:

- career counseling
- college/university admission
- vocational-technical school enrollment
- academic assessment coordination
- federal and state student financial aid ap-
plication (FAFSA) assistance
- finding scholarships
- educational planning workshops

More information about services and appointments is available online at www.ccd.edu/eoc, by phone at 303-629-9226, or at the EOC office located in the Administration Building, Room 325, on the Auraria Campus.

## STUDENT SUPPORT SERVICES (SSS)

The Student Support Services (SSS) program serves low-income, first-generation college students, and students with documented disabilities. The SSS staff and peer mentors provide students with many services including academic advising and course selection, financial aid application assistance, scholarship search assistance, career guidance and exploration, workshops on college and life survival skills, and much more. For more information, including a complete list of available services, call 303-556-4964

## SUMMER BRIDGE PROGRAM

As part of SSS, prior to each Fall semester, a Summer Bridge Program is offered to participants, which provides a foundation for a successful college education. This program serves freshmen and returning students who enter CCD in either Summer or Fall semester. In this program, students prepare to take classes, learn about financial assistance, explore career options, participate in a variety of enrichment activities, and learn about student services at CCD. For more information, call 303-556-4964.

## VETERANS AFFAIRS

Veterans seeking Veterans Affairs (VA) educational benefits must apply through the VA website, www.gibill.va.gov. It is the veteran's responsibility to assemble and submit all needed materials to the VA Regional Office and CCD's VA Certifying Official.

CCD's VA Certifying Official provides information about veteran's benefits and certifies enrollment throughout the veteran's attendance at the college. It is the veteran's responsibility to notify CCD's VA Certifying Official of any registration updates.

Veterans who are eligible for educational benefits may apply for advanced payment with CCD's VA Certifying Official. The last day to apply
for advanced payment is 30 days prior to the first day of classes. Although students may apply for advanced payment, the VA may not issue funds prior to the first day of class. Students must pay their tuition in full or set up a payment plan by the deadline posted in the schedule.

For more information about using VA educational benefits at CCD, visit CCD's VA Certifying Official in the Admissions, Registration and Records office, call 303-556-6200 or 303-352-5008, or visit www.ccd.edu.

## Required Documentation

Students must provide all of the following documents to CCD's VA Certifying Official before CCD will begin the VA Certifying Process:

- Copy of original application for benefits (22-1990 or 22-5490) or change of training place (22-1995 or 22-5495)
- Copy of the Certificate of Eligibility (sent by the VA to eligible students six-eight months after the student has applied for benefits).
- VA Worksheet (available from CCD's VA Certifying Official).
- Notice of Student Responsibility Form (available from CCD's VA Certifying Official).


## Course Selection

The VA does not generally pay for courses that are not required for the student's program of study. VA benefits cannot be used towards a repeated course that has been successfully completed, even if the student intends on repeating the course in order to raise their cumulative GPA. A course for which a grade of D was assigned may be repeated if a higher grade is required for the program of study. The VA will not pay for online developmental courses. Only developmental courses taken on campus are eligible for VA benefits.

CCD's VA Certifying Official will send certification of classes to the VA once the student has registered and submitted the required documentation. If students increase or decrease their credit hours after the initial certification has been submitted, it can result in significant delays to benefits and may also increase the likelihood of overpayment.

## Attendance

Students who stop attending class but do not officially withdraw will earn an F grade for the course. Veterans who fail to inform CCD's VA Certifying Official that they have stopped attending a course may receive an overpayment or debt notification from the VA.

## Overpayment

An overpayment may occur if a student withdraws, drops or decreases the amount of credit hours for which they are registered without adding any additional credit hours after initial certification has been sent to the VA. It is the responsibility of the student to pay back the VA if an overpayment occurs. For questions concerning this, please ask CCD's VA Certifying Official.

## Veterans' Academic Standards of Progress

Students using VA educational benefits are responsible for following CCD's Academic Progress Policy, which explains student GPA requirements and academic probation processes.

## Special Grades

AU - The VA will not certify a grade of AU, which indicates that a course was audited or taken for no credit.

I - An incomplete or I grade must be made up no later than the next consecutive 15 -week semester. If an I grade is not completed during the required period, the I will revert to F and the veteran's enrollment certification will be adjusted back to the beginning date of the term in which the I grade was received.

SP - Students must have met course attendance requirements and successfully completed at least 60 percent of the course requirements in order to receive an SP. All course objectives must be complete before the end of the next consecutive semester (Fall or Spring) or the SP will revert to a U/F and the veteran's enrollment certification will be adjusted back to the beginning date of the term in which the SP grade was received.

## Mitigating Circumstances for Veterans

When mitigating circumstances prevail, CCD will attempt to intervene on behalf of the veteran with the Veterans Administration. Mitigating circumstances (as defined by P.L. 94-502) that directly hinder an eligible veteran's or dependant's pursuit of a course and are judged to be out of the student's control include but are not limited to:

- serious illness of the eligible veteran or dependant.
- serious illness or death in the eligible veteran's or other dependant's immediate family.
- immediate family or financial obligations that require a change in terms or place of employment and preclude the veteran or dependant from pursuing course work
- the college discontinues a course.
- active military duty, including active duty for training.
- withdrawal from a course or receipt of a non-punitive grade upon completion of a course because of unsatisfactory work may be considered mitigating circumstances if the student can demonstrate good faith pursuit of the course up to the point of withdrawal or completion. Students must submit evidence that they applied for tutorial aid, consulted CCD's VA Certifying Official or consulted a CCD Program Advisor in an attempt to remedy the unsatisfactory work before withdrawal or completion.


## ARMY RESERVE OFFICERS' TRAINING CORPS (AROTC)

The Military Science Army Reserve Officers' Training Corps (AROTC) Program is offered on the Auraria Campus to all interested students at Community College of Denver. The Department of Military Science offers programs leading to an officer's commission in the active Army, Army Reserve or National Guard, in conjunction with an undergraduate or graduate degree. Military Science courses are designed to supplement a regular degree program by providing practical leadership and management experience. Enrollment in the Basic Course (freshman and sophomore years) incurs no military obligation except for Army scholarship recipients.

Students may participate in activities with the Buffalo Battalion's Charlie Company located on the Auraria Campus, to include color guard, intramural sports, running club and ranger challenge. Weekly or Saturday leadership labs provide cadets with practical leadership experience and performance-oriented, hands-on instruction outside the classroom. Leadership labs are compulsory for enrolled cadets. Physical Training (PT) is conducted three times a week with the purpose of developing muscular strength, endurance and cardio-respiratory endurance.

Applications for second and third year scholarships are open to all community college students, but acceptance of an AROTC scholarship requires enrollment at a four-year, degreegranting university. For more information about scholarships, contact the Enrollment/Scholarship officer at 303-492-3549.

Since AROTC classes at Auraria Campus are taught at Metropolitan State University of Denver (MSU Denver), students must register using the inter-institutional process which incurs no additional costs. The AROTC classes at CCD use the ARM prefix (MSU Denver uses MILR). For assistance with the inter-institutional registration process, contact CCD's Admissions, Registration and Records Office at 303-556-2420.

More information about AROTC is available online at www.msudenver.edu/arotc or by contacting the Department of Military Science office at 303-352-7079.

## COOPERATIVE EDUCATION PROGRAM

Students in CCD's Cooperative Education Program can earn credit for working part-time in a job that is directly related to their field of study. Students must apply at least one semester before their cooperative education experience begins.


For more information, contact the Center for Career and Technical Education at 303-556-2487.

## DEVELOPMENTAL STUDIES PROGRAM

CCD has a comprehensive developmental studies program for students who need to upgrade reading, English, math and/or study skills. It includes:

- an evaluation or assessment of a student's basic academic skills;
- an interpretation of assessment test results by skilled faculty and advisors;
- skill development courses in reading, mathematics, writing and study skills;
- support with computer-assisted instruction;
- preparation for GED; and
- English-as-a-Second-Language instruction and support.

For more information, contact the Center for Educational Advancement at 303-556-8455.

## HONORS PROGRAM

The CCD Honors Program was established in 1990 to recognize outstanding talent among CCD students and to provide a supportive, stimulating support community for them throughout their time at CCD.

Students in CCD's Honors Program go a step beyond the routine, turning ordinary courses into extraordinary learning experiences. Student transcripts will reflect the individual Honors courses and the overall completion of the Honors Program, providing recognition that will serve students as they transfer to other institutions, seek scholarships, and pursue career goals.

All CCD students are welcome in the program. To participate, students contract with individual instructors to do work above and beyond the ordinary class requirements. Once they have completed this supplemental work, the class will
be transcripted as an "Honors course."There is no fee to join the Honors Program.

Students who complete the Honors Program ( 15 credits worth of Honors Courses with 3.5 or better cumulative GPA) will have their degrees and/or certificates awarded with Honors. Honors Program graduates receive special recognition at CCD's annual commencement ceremony.

To learn more about the CCD Honors Program, please visit www.ccd.edu/honors or contact the Honors Program Coordinator at at 303-556-3861.



## The college reserves the right to

- change any provision or requirement of this catalog, including academic calendar dates, tuition and fees, pursuant to law, the rules of the State Board for Community Colleges and Occupational Education, or the Colorado Community College and Occupational Educational System, or college policy.
- cancel any course or program described in this catalog, at any time, without notice, and to change any other aspect of any course or program.
- require a student to withdraw at any time for health, safety, or other reasons, pursuant to appropriate policies and procedures, and to impose sanctions, according to established policy.
- dismiss students who are admitted based on false statements or documents. In such cases, students may be subject to a loss of all credit for work that may have been completed.


## CCCS COMMON STUDENT CODE OF CONDUCT STATEMENTS

Conduct that violates student rights and freedoms and is subject to disciplinary action includes, but is not limited to:

## 1. Academic Misconduct

Plagiarizing, cheating, or committing any other form of academic misconduct including, but not limited to, unauthorized collaboration, falsification of information, and/ or helping someone else violate reasonable standards for academic behavior. Students who engage in any type of academic dishonesty are subject to both academic consequences as determined by the instructor and to disciplinary action as outlined in the Community College of Denver disciplinary procedures.
2. Disruptive Behavior

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

Engaging in deceitful acts, including, but not limited to: forgery, falsification, alteration, misrepresentation, non-disclosure, or misuse of documents, records, identification and/or educational materials.
4. Conduct that is Detrimental to College or to Safety
Conduct that is deemed detrimental, harmful and/or damaging to the college and/ or that jeopardizes the safety of others as determined by the Associate Dean for Student Life/Student Conduct Officer. Examples include, but are not limited to, slamming doors, throwing chairs, and/or defacing of college property, or property of others.

## 5. Physical/Non-physical Abuse

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

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

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

## 8. Weapons

Possession or distribution of any unauthorized firearms, ammunition, explosives, fireworks and/or other dangerous weapons (or chemicals/flammable liquids) or use/ threat of use of any instrument (including, but not limited to paint ball guns, pellet guns, air soft guns, bow and arrows, knives) as a weapon to intimidate, harass, or cause harm to others.
9. Narcotics/Alcohol

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

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

## 10. Dress Code

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

## 11.Leaving Children Unattended

Leaving children unattended or unsupervised in campus buildings or on campus grounds unless enrolled or participating in authorized campus activities.
12. Violation of Laws, Directives, and Signage
Violating any municipal, county, state or federal law that adversely impacts the conditions of the educational or employment environment.

- Violations of college traffic and parking rules, regulations, or signage.
Damage to or falsely using fire alarms and/ or fire extinguishers.
Creating an intentional obstruction that unreasonably interferes with freedom of movement, either pedestrian or vehicular. This includes, but is not limited to leading or inciting to disrupt college activities. Failure to comply with the lawful directives of College employees acting within the scope of their duties, including those directives issued by a College administrator to ensure the safety and well being of others.
- Violations of college policies, protocols, procedures or signage.


## 13. Illegal Gambling

Participation in illegal gambling activities on college owned or college controlled property, and/or any function authorized or supervised by the college and/or in state owned or leased vehicles.
14. Unauthorized Entry and/or Unauthorized Possession:
Entry into, or use of any building, room, or other college-owned or college-controlled property, grounds, or activities without authorized approval. This also includes, but is not limited to the unauthorized possession, duplication or use of college keys,lock combinations, access codes, and access cards and/or credentials and/orpropping open or tampering with doors/windows.
15. Unacceptable Use of College Equipment, Network or System:
Unacceptable uses of any college-owned or operated equipment, network or system including, but not limited to: knowingly spreading computer viruses; reposting personal communications without author's consent; copying protected materials; using the network for financial or personal gain, commercial activity, or illegal activity; accessing the network using another individuals account; unauthorized downloading/uploading software and/or digital video or music; downloading/uploading, viewing or displaying pornographic content, or any other attempt to compromise network integrity.
16. Unauthorized Pets/Animals

Possession of any unauthorized pet or animal, excluding trained service animals while on college-owned or college-controlled property.
17. Tampering with Student Organization, Election, or Vote
Tampering with the process of any college recognized student organization, election or vote.
18. Group or Organization Conduct

Students who are members of a college recognized student organization or group and commit a violation of SCOC may be accountable both as an individual and as a member of the student organization.
19. Abuse of the Student Disciplinary and/or Grievance Procedure
Abuse of the Student Disciplinary and/or Grievance Procedure includes, but is not limited to the following:

- Disruption or interference with the orderly conduct of the student disciplinary/grievance procedure.
- Falsification, distortion, or misrepresentation, or knowingly pursuing malicious, frivolous, or fraudulent charges.
- Attempting to discourage an individual's proper participation in, or use of, the student disciplinary/grievance procedure. - Attempting to influence the impartiality of a participant and/or the student disciplinary/grievance procedure.
- Harassment (verbal or physical) and/or intimidation of a participant in the student disciplinary/grievance procedure.
- Failure to comply with directives and/or sanctions imposed under student disciplinary/grievance procedure.
- Influencing or attempting to influence another person to commit an abuse of the student disciplinary/grievance procedure. Engaging in retaliatory acts in any form against any person or person(s) involved in the student disciplinary/grievance procedure.
20.Unauthorized Entry into College Events Entering or attempting to enter any college-sponsored activity without proper credentials for admission.

PLEASE NOTE: In most circumstances, the college will treat attempts to commit code of conduct violations as if those attempts had been completed.

Violations of the above may result in, but are not limited to, fines, restitution, community service, and/or disciplinary procedures.

## IN-PERSON STUDENT TRANSACTIONS

For each in-person student services transaction students are required to present an acceptable identification document before any action is taken. Examples of services transactions include but are not limited to those listed below.

- Issuing of student identification cards
- Financial Aid transactions
- Registration and Records transactions
- Transcript requests and releases
- Cashier transactions
- Testing services
- Admissions services
- Release of any part of the student record as defined by FERPA


## Valid Identity and Verification of

Age Documents:

- CCD student ID card
- Colorado driver's license
- Colorado identification card
- A valid U.S. Passport
- Valid out-of-state driver's license
- Foreign passport with photo
- Military ID/Common Access Card
- Certificate of Naturalization with photo
- Certificate of Citizenship with photo
- Valid l-551
- Valid EAH/Temporary Resident
- Refugee/Asylee I-94 with photo
- BIA identification card with photo
- VA identification card with photo


## LEGAL NOTICES

## Americans with Disabilities Act and

 CCD ComplianceThe Americans with Disabilities Act, including The Amendments Act of 2008, prohibits discrimination based on disability in admission to, access to, and the operation of programs, services, or activities at CCD. The college is committed to providing an environment where all students have the opportunity to attain their educational goals. CCD provides both physical and programmatic access for all students. Reasonable accommodations will be made to ensure full educational opportunities for all students.

Appropriate documentation of a student's disability is required. Visit the Accessibility Center website at www.ccd.edu/accessibilitycenter for additional information on accommodations.

CCD complies with and fully supports Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA), including changes made by the ADA Amendments Act of 2008, regarding nondiscrimination on the basis of disability (documentation required). Refer questions concerning these acts to Rhonda Pylican, Director of Human Resources, ADA/Sec 504 Coordinator, Administration Building, Room 310, Campus Box 240, P.O. Box 173363, Denver, CO 80217-3363, Telephone: 303-352-3037, or to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Blvd., Suite. 300, Denver, CO 80204-3582 or www.ed.gov/ocr/know.html.

## Notice of Nondiscrimination

The Community College of Denver 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, or sexual orientation in its employment practices and educational programs and activities. Individuals with limited English proficiency interested in career and technical education programs will be assessed and offered options to support their participation in CCD programs. The following person has been designated to handle inquiries regarding the non-discrimination policies or discrimination complaints: Rhonda Pylican, Director of Human Resources, Title IX Coordinator, Title VII/Equal Opportunity Coordinator, ADA/Sec 504 Coordinator, Administration Building, Room 310, Campus Box 240 | P.O. Box 173363, Denver, CO 80217-3363, Telephone: 303-352-3037. Online complaint form: www.ccd.edu/report-discrimination.

## Notificación de Non Discriminación

El Community College of Denver (CCD por sus siglas en ingles), no discrimina por motivos sexo/ género, de raza, color, credo, edad, origen nacional o étnico, religión, militar en servicio activo y/o pasivo, embarazo, o personas con discapacidad física o mental, o orientación sexual, especificada en su política de empleo, o en su programa de educación, y/o en otras actividades. Personas con conocimientos limitados de inglés interesadas en programas de educación profesional y/o técnicas, serán evaluadas y se les ofrecerá opciones para apoyar su participación en los programas educativos de CCD. La siguiente persona ha sido designada para manejar las preguntas con respecto a las políticas de no discriminación o denuncias de discriminación: Rhonda Pylican, Directora de Recursos Humanos, Coordinadora del Título IX, Título VII/Oportunidad de Igualdad (EO por sus siglas en ingles), y ADA/Sec 504, Administration Building, Oficina 310, Campus Box 240 | P.O. Box 173363, Denver, CO 80217-3363, Teléfono: 303-352-3037. Formulario en línea de quejas: www.ccd.edu/report-discrimination.

## Family Education Rights \& Privacy Act of 1974 (FERPA) <br> CCD NOTIFICATION OF RIGHTS UNDER FERPA

The Family Educational Rights and Privacy Act of 1974 (FERPA) affords students certain rights with respect to their education records. FERPA rights are afforded to 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 Community College of Denver receives a request for access. A student should submit to the Admissions, Registration, and Records Office a written request that identifies the record(s) the student wishes to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar, the Registrar will make arrangements to obtain the requested records.
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 Community College of Denver to amend a record should write the Registrar who will notify the college official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. If CCD decides not to amend the record as requested, CCD will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to provide written consent before Community College of Denver 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 CCD in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom CCD 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 state and federal agencies, such as the veteran's administration, 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.

CCD has designated the National Student Clearinghouse, the Auraria Police De-
partment, and the Health Center at Auraria as college officials. CCD has also designated Metropolitan State University of Denver (MSU Denver) and the University of Colorado at Denver (UCD) as college officials for students taking developmental courses through these institutions, inter-institutional registration, and physical education courses. 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 education records with 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 your education records and personally identifiable information (PII) contained in such records — including your Social Security Number, grades, or other private information may be accessed without your 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 your records and PII without your consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is "principally engaged in the provision of education," such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to your education records and PII without your consent to researchers performing certain types of studies, in certain cases even when we object to or do not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive your PII, but the Authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without your consent Pll from your
education records, and they may track your participation in education and other programs by linking such Pll to other personal information about you that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.

## The Colorado Community College

 System considers the following to be directory information and Community College of Denver staff may disclose this information, without prior consent, to anyone inquiring in person, by phone, or in writing: Student name;Degrees/certificates and awards student has earned;Major field of study;Dates of student attendance; Parttime or full-time enrollment status;Most recent educational institution attended by the student;Participation in officially recognized activities and sports;If participating in an officially recognized activity or sport, height or weight.Additionally, name, addresses, phone numbers, 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 should complete a form to suppress directory information. The form is available online or at the Admissions, Registration \& Records office and must be received by the first day of the semester. 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.
4. Students have the right to file a com-
plaint with the U.S. Department of Education concerning alleged failures by CCD to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education

400 Maryland Avenue, SW
Washington, DC 20202-5901

## Drug-Free Schools

In compliance with the Drug-Free Schools and Communities Act Amendment, CCD has a strict rule against students or employees unlawfully manufacturing, distributing, dispensing, possessing, or using alcohol or illicit drugs on college property or during college activities. Any student or employee convicted of any such drug violation is subject to criminal penalties under local, state, and federal law, as well as disciplinary action by the college.

Although possession and use of marijuana consistent with the requirements of the Colorado Constitution is no longer a crime in the State of Colorado, the possession and use of marijuana remains illegal under federal law. Consistent with federal law, including the Controlled Substances Act and the Drug Free Schools and Communities Act, the use and/or possession of marijuana continues to be prohibited while a student is

- on college-owned or college-controlled property,
- at any function authorized or supervised by the college,
- and/or in state owned or leased vehicles.

For information on substance abuse, contact the Auraria Student Health Center in PL 150, 303-556-2525; or for a referral, contact CCD Student Life in TV 309 or at 303-556-2597

The Colorado Department of Health offers counseling, treatment, rehabilitation, and re-entry programs for drug and alcohol abusers. For more information visit www.cdphe.state.co.us or e-mail cdphe.information@state.co.us.

## Electronic Communications Policy

CCD has adopted a policy to guide usage of all forms of electronic communication, including e-mail, Internet services, voice mail, audio and video conferencing, and fax messages that are sent or received by faculty, staff, students, and other authorized users of CCD resources.

In general, CCD provides various forms of electronic communication for teaching, learning and college operations. All records created through the electronic communication equipment CCD provides are the property of the college. People who are authorized to use e-mail and voice mail provided by CCD may make personal use of those media as long as there is no direct cost to the college.

All electronic communication at CCD must meet the standards of conduct, laws, and regulations published in such official CCD, state and federal documents as the CCD catalog, CCD Student Code of Conduct, any CCD faculty handbook and the Colorado State Employees Handbook.

CCD electronic communications may not be used for commercial purposes; to send copies of documents in violation of copyright laws; to transmit information that is restricted by laws or regulations; to intimidate, threaten, or harass other individuals, or to interfere with the ability of others to conduct CCD business; forge communication so it appears to be from someone else; to get unauthorized access to data, files or other communication; to breach security measures to access electronically stored information in any way; sending chain letters or jokes of any nature.

For information about CCD student e-mail accounts please review the Student E -mail on page 42 policy in the CCD Catalog. For more information or directions on how to activate your student e-mail visit www.coloradocommunitycolleges.com/start/campusemail.html. CCD requires that all students learn to use e-mail as it
is the official means of communication between the college and students.

## LAW ENFORCEMENT AT CCD

## Auraria Campus

To report a crime on campus, use one of the emergency telephones located in every classroom building for immediate, direct access. Blue Light emergency telephones located in most parking lots on campus also provide immediate, direct access. Call 911 from any campus phone for emergencies or dial 6-5000 for other police assistance. From off campus telephones, payphones, or cell phones call 303-556-5000.

The Auraria Police Department employs certified police officers who receive their police authority via the provisions of the Colorado Revised Statutes, Title 24, Article 7, Part 1. The Auraria Police Department is authorized to enforce campus rules and regulations as well as Municipal Codes, State Laws and Federal Statutes.

Crimes should be reported it to the Auraria Police Department immediately. The department's services are available 24 hours a day, seven days a week. Priority is given to reports of incidents that threaten the life or safety of people, the security of property, and the peace of the community. Colorado Revised Statutes, 18-8-115, "Duty to Report a Crime," require all persons who believe a crime has been committed to report the suspected crime promptly to law enforcement authorities.

Victims of stalkers or persons with restraining orders against another party are strongly encouraged to notify the Auraria Police Department of the threat, and to provide the Auraria Police Department with a copy of the restraining order so that police officers have the information on hand.

The Auraria Police Department has the primary responsibility to coordinate locking and unlocking of most campus buildings. Campus Police work closely with Facilities Management to maintain building security and key control. Access to facilities after normal building hours is limited and coordinated with Campus Police. The Auraria Police Department, located in the Administration Building, patrols the Auraria Higher Education Center 24 hours a day. A satellite Auraria Police Department office is located in the Tivoli Student Union.

## Center for Health Sciences at Lowry

The Center for Health Sciences at Lowry is monitored by Lowry Campus Security 24 hours a day, seven days a week. Lowry Campus Security personnel are not certified police officers but can make arrests. The Denver Police and Aurora Police departments are the official law enforcement agencies for the Lowry Campus. Both patrol the Lowry Campus frequently. The Center for Health Sciences at Lowry is divided between the City of Denver and the City of Aurora. Different cities have jurisdiction depending on the building where an incident occurs.

Anyone who is a victim of a crime, witness-
es a crime, or needs the fire department, law enforcement, or an ambulance while at the Lowry Campus, should contact the Denver metro-area emergency response system by dialing 911 or 303-892-9111 from any telephone, including pay phones. Blue Light emergency telephones are also available in most parking lots on the Lowry Campus.

For non-emergency crimes, contact Aurora Police at 303-627-3100 or Denver Police at 303-913-2000.

In addition, report all crimes and other emergencies to Lowry Campus Security at 303-419-5557 after calling 911. The Director of Lowry Security can be reached at 720-858-2733.

The buildings for the Center for Health Sciences at Lowry are open during normal business hours, Monday through Friday, 8 a.m. until 5 p.m. Classroom buildings are open at 7 a.m. and locked as scheduled activities end, which may be as late as 11 p.m. Contact Lowry Campus Security at 303-419-5557 with questions on building access and after hours maintenance.

## CCD North

The property is monitored during regular business hours by CCD North maintenance staff. College personnel are not certified police officers and cannot make arrests or other legal decisions. The Adams County Sheriff is the official law enforcement agency for the CCD North location.

Anyone who is a victim of a crime, a witness to a crime, or needs the fire department, law enforcement, or an ambulance while at CCD North, contact the Adams County Sheriff's Department by calling 911 from any telephone, including pay phones. Report crimes and other emergencies immediately to the nearest CCD North faculty, staff, or administrator.

For non-emergency crimes, contact Adams County Sheriff's Department at 303-288-1535.

CCD North's maintenance staff has the primary responsibility for opening and closing the location. Buildings are generally open Monday through Thursday from 7:30 a.m. to 9 p.m. and on Fridays from 7:30 a.m. to 5 p.m. Access to CCD North after regular business hours is limited and coordinated with the location director and the maintenance department or as arranged by individual instructors.

## Status of Campus Safety

Timely notifications are made to the campus community on crimes that are reported to Auraria Campus Police or local police and may be considered a threat to other students or employees. These notifications are made using one or a combination of the following methods:

- news releases;
- crime advisories;
- making reports available to the media
through campus newspaper, radio, and television;
- advertising in campus publications; and
- distributing the above information to campus employees.

The Clery Act requires higher education institutions to give timely warnings of crimes that represent a threat to the safety of students or employees, and to make public their campus security policies. It also requires that crime data is collected, reported, and disseminated to the campus community and also submitted to the Department of Education. The act is intended to provide students and their families with accurate, complete, and timely information about safety on campus so they can make informed decisions.

The CCD Campus Security and Safety Report is available online at www.ahec.edu/cam-puspolice/ccd-clery.pdf

## Student Code of Conduct

All students must adhere to CCD's Student Code of Conduct, which is available online at: www.ccd.edu/ccd.nsf/html/CCD+Student+ Code+of+Conduct.

## Student Email

CCD provides free student email accounts. CCD email accounts are the only official means of communication between students and the college. CCD expects that students sign in and check their college issued email account on a frequent and consistent basis as students are responsible for all information sent to them via their systemassigned email account. Student email accounts will remain active throughout students' college experience at any CCCS institution.

The use of student email is a privilege, not a right; and the System maintains the right to limit access. Email is subject to disclosure to third parties through subpoena or other processes. Refer to the Electronic Communications Policy for more information.

## Student Grievance Procedure

This Student Grievance Procedure is intended to give students an opportunity to present an issue that they feel warrants action, including the right to secure educational benefits and services without regard to sex, race, national origin or ancestry, creed, color, sexual orientation, disability, or age and have the issue considered in a prompt and equitable fashion.

## Definitions:

Grievant: Enrolled student, client or volunteer who is providing a service to benefit the college under the supervision and control of a college employee. A client or volunteer may only grieve a decision that bans him or her from the campus.
Grievance: A grievable offense is any alleged action that violates or inequitably applies written college policies or procedures. The Grievant must be personally affected by such violation or inequitable action. A grievance must be brought to the formal stage within 20 calendar days of the date the student knew or reasonably should have known about the action.

Chief Student Services Officer (CSSO): The college employee designated by the college president to administer student grievances. Grievances alleging discrimination may be referred to Rhonda Pylican, Director of Human Resources, Campus Box 240, P.O. Box 173363 , Denver, CO, 80217, Administration Building, Room 310, 303-352-3037, rhonda.pylican@ccd.edu.
Remedy: The relief that the Grievant is requesting.
Respondent(s): Another student, volunteer, client, faculty member and/or administrator identified by the Grievant as causing or contributing to the grievance.
Non-grievable matters: The following matters are not grievable under this procedure except as noted: matters over which the college is without authority to act; grades and other academic decisions unless there is an allegation that the decision was motivated by illegal discrimination; and disciplinary actions taken pursuant to State Board for Community Colleges and Occupational Education (SBCCOE) policy.

## Procedures:

1. Informal. Grievant is encouraged to resolve the issue with the Respondent or his/her supervisor. In case of grievances based upon one's race, color, creed, national origin or ancestry, disability, age or gender, the Grievant may first contact the college employee responsible for affirmative action to seek informal resolution of the issues. If the complaint alleges facts that might constitute a violation of the Colorado Community College System President's Procedures concerning sexual harassment, the administrator shall investigate and process the complaint under the procedure. While the Grievant is encouraged to use the informal process, he/she may at any time elect to go to the formal stage by following the process outlined below.

## 2. Formal.

a. Grievant, in a timely manner, files a written statement of the actions complained of and describes the remedy he/she is seeking with the Chief Student Services Officer (CSSO). A matter also could be referred to the process by the College president or his/her designee. Once a written grievance is filed or referred, the CSSO or designee will determine whether or not the situation states a grievable offense. The matter will be closed if the situation is determined not grievable and the Grievant will be notified of the reasons.
b. If the matter is determined to be grievable, the CSSO or designee (which may be an individual or a committee) shall hear the Grievance. A hearing will be held to give the Grievant, Respondent, and other interested parties invited to appear, the opportunity to explain what they know about the issues sur-
rounding the grievance. Considering the oral and written statements and documents, the CSSO or designee shall issue a decision within 10 calendar days of close of the hearing. The decision shall be served upon the Grievant and the Respondent personally or by certified mail to the addresses on file in the Admissions, Registration and Records office. The decisions shall reject the grievance or grant the grievance and make recommendation(s) to resolve the issue(s). The CSSO or designee's decision is final unless either party files a Petition for Review with the college president within five (5) calendar days of service of the decision.
c. Upon receipt of a Petition for Review, the college president will review the record and issue a written decision within 10 calendar days of receipt of the Petition for Review. The president's decision is final
d. The CSSO or designee may extend the scheduling timelines described above for good cause.
e. If the grievance is against the CSSO, the Chief Academic Officer or other person designated by the president shall perform the duties of the CSSO.

## Informal Grievance Procedure

This informal grievance procedure must be initiated as soon as possible after the Grievant knows of the matter that gives rise to the grievance.

1. The Grievant shall discuss and attempt to resolve the problem with the Respondent(s). The Grievant shall keep all records relevant to the alleged grievance.
2. If the problem is not mutually resolved at this time, the Grievant shall confer and attempt to resolve the problem with the immediate supervisor(s) and/or the administrator of the respondent(s).
3. If satisfactory resolution is still not achieved, the Grievant must confer and attempt to resolve the problem with the CSSO or designee. Matters involving grade changes or academic appeals should follow the grade appeal process.

## Formal Grievance Procedure

1. If the grievance is not resolved by the Informal Grievance Procedure or if the student wishes to bypass that course of action and is not limited to a change of grade, the student has the right to file a written grievance with the CSSO. The filing must occur within 20 calendar days of the date the student knew or reasonably should have known about the action. This written allegation should document all steps taken to resolve the complaint. If the CSSO determines that the allegation is grievable, a copy of the written grievance must be mailed or handdelivered to the Respondent(s) by the CSSO within five (5) working days of the filing of
the formal grievance.
2. Upon receipt of the notice of a grievable offense, the CSSO will establish a Grievance Committee within 10 working days. The time may be increased if the notice is given during a school break or during a semester change. The CSSO is responsible for keeping all records pertaining to grievances. If the grievance is against the CSSO, the Chief Academic Officer or other person designated by the president shall perform the duties of the CSSO.
3. If the matter is determined to be grievable, the CSSO or designee shall hear the Grievance.
4. The CSSO or designee (which may be an individual or committee) will convene the hearing, set the date of the meeting and notify all involved persons. If a committee is convened, the CSSO will be responsible for informing the Grievance Committee of its role and responsibilities. A record of the proceedings and recommendations will be made and retained by the CSSO.
5. All hearings will be closed unless the both the grievant and respondent agree in writing to an open hearing At the request of the Grievant or respondent, interested parties may be included subject to the approval of the CSSO. In the case of sexual harassment grievances, the procedure will assure confidentiality to the extent possible for Grievant and witnesses.
6. If either the Grievant or Respondent fails to appear at the hearing, the committee may proceed and determine its resolution of the problem in the person's absence.
7. The Grievance Committee's decision will be based on the greater relevant evidence.
8. The Committee will deliver a copy of its recommendation to the CSSO within three (3) working days following the conclusion of the hearing.
9. The CSSO will render a decision regarding the recommendation within 10 working days, and both parties must notified in writing of the decision.
10. The Grievant may withdraw the grievance in writing at any point in the proceedings.
11. The CSSO may grant an extension of the time limits for reasonable cause. This extension must be documented and is not automatic. The decision to grant an extension must be written and communicated to all concerned parties.
12. Within five (5) working days of the committee's decision, either party may file a petition for review with the college president. The president's decision is final.
13. This policy is being implemented in accordance with the SBCCOE policy and the due process.

In the event that two individuals or groups of individuals from different Auraria Campus institutions are involved in a grievance, the procedures normally followed by the institution whose constituent is being charged with
the grievance would apply. The CSSO from the other institution involved will be informed of the filing of the grievance and the outcome of the grievance procedure.

## Student Right to Know and Campus Security Act

This report was prepared by the Auraria Higher Education Center (AHEC) Campus Police Department and the Community College of Denver Dean of Students to comply with Federal Law No.101-542, the Student Right-to-Know and the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act of 1999 (formerly the Campus Security Act of 1990).

For a paper copy of this report, contact the Associate Dean of Student Life/Student Conduct Officer at 303-556-8164. The report describes security practices and procedures at the Auraria Higher Education Center and other Community College of Denver Satellite Locations, and lists crime statistics for the most recent calendar year the two preceding calendar years. Since 1992, these institutions have been required to report each year on the status of campus security to all current students and employees.

The Report can be found at: www.ahec. edu/campuspolice/ccd-clery.pdf.

## Campus Crime Information

The college provides to all prospective students and CCD 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 the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act of 1999 (formerly the Campus Security Act of 1990).

The Clery Report can be viewed at: www. ahec.edu/campuspolice/ccd-clery.pdf

## Statement Regarding Registered Sex Offenders

Colorado Revised Statutes requires that "each institution of post secondary education in the state shall provide a statement to its campus community identifying the name and location at which members of the community may obtain the law enforcement agency information collected pursuant to 19-3-412(6.3), C.R.S., concerning registered sex offenders."

Information concerning persons who are required by Colorado law to register as sex offenders, including registered sex offenders who are enrolled, employed, or volunteering at CCD, may be obtained from the Denver Police Department, 1331 Cherokee St. (720-913-2000) or the Auraria Campus Police (303-556-3271).

## CCD Sexual Misconduct Policies

Board Policy (BP) 3-120 and System President's Procedure (SP) 4-120 provide that Colorado Community College System shall not unlawfully discriminate based on sex/gender in its employment conditions or educational programs or activities. Sexual misconduct is a form of sex/
gender discrimination.
The CCD community has the right to be free from sexual violence. All members of the CCD community are expected to conduct themselves in a manner that does not infringe upon the rights of others. Information from College Procedure HR-9, Sexual Misconduct, is provided below and a link to the procedure is available at www.ccd.edu/discrimination.

## Sexual Misconduct offenses include, but are

 not limited to:- Sexual Harassment
- Non-Consensual Sexual Contact (or attempts to commit same)
- Non-Consensual Sexual Intercourse (or attempts to commit same)
- Sexual Exploitation

Sexual Harassment is unwelcome, genderbased verbal or physical conduct that is sufficiently severe, persistent, or pervasive that it has the effect of unreasonably interfering with, denying, or limiting someone the ability to participate in or benefit from CCD's educational programs and/or activities, or work activities, and, the unwelcome behavior is based on power differentials (quid pro quo), the creation of a hostile environment, or retaliation.

- Quid pro quo sexual harassment exists when there are unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature, and, submission to or rejection of such conduct results in adverse educational or employment action; or affects the terms or conditions of education or employment, or activities with the College.
- Hostile environment includes any situation in which there is harassing conduct that is sufficiently severe, persistent, or pervasive that it alters the conditions of employment or limits, interferes with, or denies educational benefits or opportunities, from both a subjective (the alleged victim's) and an objective (reasonable person's) viewpoint.
- Retaliatory harassment is any adverse employment or educational action taken against a person because of the person's perceived participation in a complaint or investigation of discrimination or sexual misconduct.

Non-consensual sexual contact is any intentional sexual touching, however slight, with any object, by any individual upon any individual that is without consent and/or by force.

Non-consensual sexual intercourse is any sexual penetration however slight, with any object, by any individual upon any individual that is without consent and/or by force.

- Consent must be clear, knowing and voluntary. Consent is active, not passive. Silence, in and of itself, cannot be interpreted as consent. Consent can be given by words or actions, as long as those words or actions create mutually understandable clear per-
mission regarding willingness to engage in (and the conditions of) sexual activity. Also, in order to give effective consent, one must be of legal age. Further, consent to any one form of sexual activity cannot automatically imply consent to any other forms of sexual activity. Previous relationships or prior consent cannot imply consent to future sexual acts.
- Force is the use of physical violence and/ or imposing on someone physically to gain sexual access. Force also includes threats, intimidation (implied threats), and coercion that overcomes resistance or produces consent.
- Incapacitation is a state where someone cannot make rational, reasonable decisions because they lack the capacity to give knowing consent. Incapacitation could result from mental disability, sleep, involuntary physical restraint, or from the ingestion of rape drugs. Possession, use and/or distribution of any of these substances, including, but not limited to Rohypnol, Ketomine, GHB, Burundanga, etc. is prohibited, and administering one of these drugs to another person is a violation of this procedure. More information on these drugs can be found at www. 911 rape.org/. Having sex with someone whom you know to be, or should know to be, incapacitated (mentally or physically) is a violation of college procedure HR-9.

Sexual exploitation occurs when anyone takes non-consensual or abusive sexual advantage of another for his/her own advantage or benefit, or to benefit or advantage anyone other than the one being exploited, and that behavior does not otherwise constitute one of other sexual misconduct offenses.

- Examples of sexual exploitation include, but are not limited to, invasion of sexual privacy, non-consensual video or audio-taping of sexual activity, or viewing or possessing child or adult pornography at work or on college owned property.

CCD can only respond to allegations of misconduct if it is aware of the misconduct. Further, CCD can more effectively investigate the sooner the allegation is brought to its attention. Any employee, student, authorized volunteer, guest, or visitor who believes that he or she has been subjected to sexual misconduct, or believes someone else a part of the CCD community is being subjected to sexual misconduct, shall contact Title IX/EO Coordinator Rhonda Pylican, Director of Human Resources, Campus Box 240, PO Box 173363, Administration Building, Room 310, (303) 352-3037, rhonda.pylican@ccd.edu.

CCD reserves the right to take whatever measures it deems necessary in response to an allegation of sexual misconduct in order to protect employee and students'rights and personal safety. For students, such measures include, but are not limited to: modification of living arrangements, class schedule reassignment, in-
terim suspension from the College pending an investigation, and reporting the matter to the Auraria Campus Police.

Not all forms of sexual misconduct will be deemed to be equally serious offenses, and CCD reserves the right to impose different sanctions, ranging from verbal warning to expulsion, dismissal, termination, or no-trespass order, depending on the severity of the offense. CCD will consider the concerns and rights of both the complainant and the respondent.

## Auraria Campus Sexual Assault Policy STATEMENT OF PURPOSE

This Policy was developed collaboratively by the Auraria Higher Education Center ("Center") and its constituent institutions - the Community College of Denver, the Metropolitan State University of Denver, and the University of Colorado Denver - for the purpose of implementing provisions of the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, 20 U.C.S. ß 1092(f), relating to the response of the Auraria Campus Police Department and the constituent institutions to students who are victims of sexual assault. The Auraria Campus is committed to responding appropriately to all reports of sexual assaults and to working collaboratively with other law enforcement and government and community agencies.

In the development of this Policy, the Auraria Campus also collaborated with the Sexual Assault Interagency Council and adhered to the spirit of the Denver Sexual Assault Response Protocol, which was signed by the chief executives of the constituent institutions on November 7, 2005. This Protocol is available online at www.denversaic.org.

## Policy Statement

The Center and its constituent institutions prohibit sexual assault, attempted sexual assault, and other sexual offenses on property owned or controlled by the Center or its constituent institutions, at institutionally-sponsored or supervised activities, or at functions of recognized student organizations. The Federal Bureau of Investigation's National Incident Based Reporting System of the Uniform Crime Report defines a sex offense in general as"any sexual act directed against another person, forcibly and/or against the person's will; or not forcibly or against the person's will where the victim is incapable of giving consent.'

## Support for Victims

Students who are victims of sexual offenses have access to various confidential counseling options with staff that are specifically trained in the area of sexual offenses and crisis intervention. Victims of sexual offenses can be seen confidentially through the Health Center at Auraria. During regular business hours, victims should call the Health Center at 303-556-2525 for immediate care or an appointment. After hours, victims should seek immediate assistance from Denver Health Medical Center at 8th and Bannock in Denver. For additional resources, see below.

## On the Auraria Campus:

HEALTH CENTER AT AURARIA, PLAZA 150
Phone: 303-556-2525
(available to any student-fees may apply) www.msudenver.edu/healthcenter
the phoenix center at auraria,
TIVOLI STUDENT CENTER, 227
Phone: 303-556-6011
24/7 helpline: 303-556-CALL (2255), www.thepca.org
DEAN OF STUDENT DEVELOPMENT
Phone: 303-556-3605

## Local law enforcement agencies: DENVER DISTRICT ATTORNEY'S OFFICE

Phone: 720-913-9000
Victims Compensation: 720-913-9253
www.denverda.org
DENVER POLICE DEPARTMENT
Emergency: 911
TDD/TTY: 720-913-2000
Non-Emergency: 720-913-2000
Victim Assistance Unit: 720-913-6035
Sex Crimes Unit: 720-913-6050
Sex Crimes Hotline: 720-913-6359
www.denvergov.org/police
Community agencies/resources available in

## the Denver/Metro area:

COLORADO COALITION AGAINST SEXUAL ASSAULT (CCASA)
Phone: 303-839-9999 • www.ccasa.org DENVER CENTER FOR CRIME VICTIMS
Hotline: 303-894-8000 • TTY: 303-860-9555
Administrative line: 303-894-0660
www.denvervictims.org
MOVING TO END SEXUAL ASSAULT (MESA)
Hotline: 303-443-7300
Administrative Office: 303-443-0400
www.movingtoendsexualassualt.org
RAPE ASSISTANCE AND AWARENESS
PROGRAM (RAAP)
Hotline: 303-322-7273
Spanish: 303-329-0031 •TTY: 303-329-0023
Administrative Office: 303-329-9922
(M-F 9am-5pm)
www.raap.org
WINGS FOUNDATION
(Survivors of childhood sexual abuse; support groups for men and women.)
Phone: 303-238-8660
Toll free: 800-373-8671
www.wingsfound.org
COMMUNITY SPECIFIC SERVICES/RESOURCES:
COLORADO ANTI-VIOLENCE PROGRAM
(gay, lesbian, bisexual, transgender and queer)
Phone: 303-839-5204
24-hour crisis: 303-852-5094/1-888-557-4441 www.coavp.org

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** Denotes a "Degree with Designation"(DWD) that has a Statewide Transfer Degree Plan in place and is fully transferable in its entirety into any Colorado public four-year program. DWDs are awarded with a specific program designation on the transcript. See a Program Advisor for more information.

An AA or AS degree, a warded without a specific program designation, is transferable in part or whole. See a Program Advisor for more information.



CENTER FOR CAREER \& TECHNICAL EDUCATION
Christopher Budden, Ed.D., Dean
303-352-3221

## ACCOUNTING

303-556-3826
Jacob S. Webb
BUSINESS ADMINISTRATION, ECONOMICS,
POLITICAL SCIENCE
Carol Miller, Ph.D.
BUSINESS TECHNOLOGY
Jackie Carpio.
CRIMINAL JUSTICE
Dan Miraflor.
EARLY CHILDHOOD EDUCATION, EDUCATION,
ELEMENTARY EDUCATION.
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Eric Hamilton
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Tony Rubino.

CENTER FOR EDUCATIONAL ADVANCEMENT
Nancy Story, Dean
303-556-3801

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| Brian Dickson | brian.dickson@ccd.edu |
| DEVELOPMENTAL MATHEMATICS | 303-556-3581 |
| Linda Sue Hoops | linda.hoops@ccd.edu |
| READING | 303-352-4046 |
| Brenda Garrison | . brenda.garrison@ccd.edu |
| ENGLISH AS A SECOND LANGUAGE (ESL) | 303-352-3335 |
| Roberta Ware | roberta.ware@ccd.ed |
| FOUNDATIONAL SKILLS INSTITUTE |  |
| (formerly GED Institute) | 303-556-2774 |
| Glenda Sinks | inks@ccd. |

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Connie Strand, Dean ................................................... 303-365-8300

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ELECTRONEURODIAGNOSTICS..................................... 303-365-8304
Theresa Krupski ............................................. theresa.krupski@ccd.edu
EMERGENCY MEDICAL SERVICES ................................. 303-365-8385

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NURSE AIDE .................................................................... 303-365-8357

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Capstone Courses:These courses, usually taken during the student's final semester at CCD, review and assess the skills a student has learned in his or her program of study. All courses identified as capstone courses require a grade of $C$ or better for graduation. Capstone courses must be taken at CCD.

Core Curriculum: These courses fulfill lowerdivision general education requirements as defined and agreed on between the State Board for Community Colleges and Occupational Education and the governing boards of all public four-year institutions in Colorado.

Corequisite: When a course has a corequisite, it means that a student is required to take another course concurrent with (or prior to) enrollment in the course. Knowing the information presented in the corequisite course is considered necessary in order for a student to be successful in the course. It is the student's obligation to know and meet course corequisites. These are stated in the course description section of the CCD Catalog and the Schedule of Classes. Corequisites will be checked at registration. The student may be required to file proof of meeting corequisites.

Course Number: A three-digit number is assigned to all college courses. Courses listed in the 100s are designated for freshman level;

200s are intended for sophomore level. Courses numbered below 100 are developmental and generally cannot be used towards degree or certificate requirements and are not transferable to four-year institutions.

Credit Hour: This is the basic unit of academic credit. Generally, one credit hour is earned by attending a lecture class for a 50-minute period, once a week, for a full semester. In a laboratory course, one-credit hour is granted for two to three 50-minute periods per week in the laboratory.

An associate degree requires a minimum of 60 credits. Credit hours in parenthesis, ex. (3), are options from which students may choose. They are not included in the total credit hours required for the program or plan of study. An average, full-time student course load is 15 credit hours.

Credit Hours in Parentheses: For each academic program listed in this catalog, credit hours for some classes are in parentheses. These classes are optional and students may choose to take one or more to fulfill the program requirements. Always review your choices with your Program Advisor.

General Education: General education is the liberal arts component of a baccalaureate degree that may include lower- and upper-division courses as defined by each institution.

Guaranteed Transfer Courses (GT): Some of the classes you take at CCD are guaranteed to transfer to any public college or university in the state and count toward your four-year degree as though you took the class at that institution. In the Course Description section of the catalog, those Guaranteed Transfer Courses include a code such as "GT-SC1" which indicates that the class is guaranteed to transfer as a science credit.

Plan of Study: A Plan of Study consists of at least 4 courses from the same or a related subject area (course prefix). The plan of study will not appear on students' diplomas or transcripts.

Prefix: Each course has a three-letter code designating the instructional department or division. For example, ENG is the prefix for English courses.

Prerequisite: When a course has a prerequisite, it means that a student must have certain knowledge to be successful in the course. The prior knowledge may be demonstrated by a test score or a successful completion of a prior course (ex. must have completed ENG 060 with a grade of $C$ or better). Completion of the prerequisite is required prior to enrolling in the course, and U/D, U/F, D, F, SP or I grades are not acceptable. It is the student's obligation to know and meet course prerequisites. These are stated in the course description section of the CCD catalog and the Schedule of Classes. Prerequisites will be checked at registration. The student may be required to file proof of meeting prerequisites.

NOTE: Students who have taken prerequisite courses longer than seven years ago are strongly encouraged to take an assessment test over the prerequisite material to ensure adequate prior knowledge to be successful in future courses. The outcome of the assessment test will help the student determine whether or not he or she needs to re-take the prerequisite course. The assessment test is available in the CCD Testing Center.

For Health Science degrees, because of program accreditation requirements, students must have completed all science courses within the previous seven years before the first day of class in a health program.

Section Number: A three-digit number or letter combination is assigned to all college courses. The section number is found immediately following the course number (ex. ENG 121-111 = Section 111 of English Composition I). This number is not indicative of the number of sections offered at CCD.

## DEGREES WITH DESIGNATION/STATEWIDE TRANSFER DEGREE PROGRAMS

Community College of Denver students who follow the prescribed program in the following areas will be able to transfer their degrees and enroll as juniors in any Colorado public four-year program: Anthropology, Business, Criminal Justice, Economics, Engineering, French, History, Mathematics, Political Science, Psychology (both AA and AS), Sociology, and Spanish. All courses must be completed with a grade of C or better. Course substitutions are not permitted with any Statewide Transfer Degree Plan.

NOTE: Students who have taken prerequisite courses longer than seven years ago are strongly encouraged to take an assessment test over the prerequisite material to ensure adequate prior knowledge to be successful in future courses. The outcome of the assessment test will help the student determine whether or not he or she needs to re-take the prerequisite course. The assessment test is available in the CCD Testing Center.

For Health Science degrees, because of program accreditation requirements, students must have completed all science courses within the previous seven years before the first day of class in a health program.

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| :--- | :--- |
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| Associate Degree of Arts - History Designation | page 51 |
| Associate Degree of Arts - Political Science Designation | page 51 |
| Associate Degree of Arts - Psychology Designation | page 52 |
| Associate Degree of Arts - Sociology Designation | page 53 |
| Associate Degree of Arts - Spanish Designation | page 53 |
| Associate Degree of Science - Engineering Designation | page 54 |
| Associate Degree of Science - Mathematics Designation | page 54 |
| Associate Degree of Science - Psychology Designation | page 54 |

Associate Degree of Arts - Anthropology Designation
General Education Course Requirements: 33
Communication 6
ENG 121 English Composition I: GT-CO1 3
ENG 122 English Composition II: GT-CO2 3 OR
ENG 122 English Composition II: GT-CO2 (3) AND a GT-CO3 course GT-CO3
Mathematics 4

| MAT 121 College Algebra: | GT-MA1 |
| :--- | :--- |
| Arts \& Humanities |  |

Two guaranteed transfer Arts \& Humanities courses
(GT-AH1, GT-AH2, GT-AH3, GT-AH4)
History
One guaranteed transfer History course
(GT-HI1)
Social \& Behavioral Sciences
Two guaranteed transfer Social \& Behavioral Sciences courses
(GT-SS1, GT-SS2, GT-SS3)

MAT - all courses 120 and higher
MGD - all courses
MUS - all courses
PHI - all courses
PHY - all courses
POS - all courses
PSY - all courses 101 and higher
SOC - all courses
SPA - all courses 111 and higher
THE - all courses
WST - all courses
Total

NOTE: Additional ANT courses beyond the 4 courses ( 12 credit hours) identified above may not count toward the Anthropology major at the receiving 4 -year institution. Please see a Program Advisor for more information.
NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

## Associate Degree of Arts - Business Designation

General Education Course Requirements: 37
Communication 6
ENG 121 English Composition I: GT-CO1 3
ENG 122 English Composition II: GT-CO2 3 OR
ENG 122 English Composition II: GT-CO2 (3)
AND $\quad$ GT-CO3 course

| Mathematics |  | $\mathbf{8}$ |
| :--- | :--- | :--- |
| MAT | 121 | College Algebra: | GT-MA1 4


| MAT 123 | Finite Mathematics: | GT-MA1 | (4) |  |
| :--- | :--- | :--- | :---: | :---: |
| MAT | 125 | Survey of Calculus: | GT-MA1 | 4 | OR

a higher level Calculus course

| Arts \& Humanities |  | $\mathbf{6}$ |
| :--- | :--- | :--- |
| Two guaranteed transfer Arts \& Humanities courses |  |  |
| (GT-AH1, GT-AH2, GT-AH3, GT-AH4)   <br> History   <br> One guaranteed transfer History course GT-HI1  <br> Social \& Behavioral Sciences  $\mathbf{6}$ <br> ECO 201 Principles of Macroeconomics: GT-SS1 <br> ECO 202 Principles of Microeconomics: GT-SS1 <br> Natural \& Physical Sciences  $\mathbf{3}$ $\mathbf{l}$ |  |  |

Two guaranteed transfer Natural \& Physical Sciences courses
(GT-SC1, GT-SC2)
Additional Required Courses ..... 23
ACC 121 Accounting Principles I ..... 4
ACC 122 Accounting Principles II ..... 4
BUS 115 Introduction to Business ..... 3
BUS 216 Legal Environment of Business ..... 3
BUS 217 Business Communications and Report Writing ..... 3
BUS 226 Business Statistics ..... 3
COM 115 Public Speaking ..... 3
Total ..... 60

NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.


| Two guaranteed transfer Natural \& Physical Sciences courses - |  |  |
| :--- | :--- | ---: |
| one course must be lab-based (GT-SC1) |  |  |
| (GT-SC1, GT-SC2) |  |  |
| Additional Required Courses |  |  |
| COM 115 | Public Speaking | 27 |
|  | OR | 3 |
| COM | 125 | Interpersonal Communication |
| CRJ | 110 | Introduction to Criminal Justice |
| CRJ | 125 | Law Enforcement Operations |
|  |  | (will be renamed Policing Systems) |
| CRJ | 145 | Correctional Process |CRJ 127 Crime Scene Investigation (3)

CRJ 135 Judicial Function ..... (3)
CRJ 205 Principles of Criminal Law ..... (3)
CRJ 209* Criminal Investigations (*not available at CCD) ..... (3)
CRJ 230 Criminology ..... (3)
CRJ 231 Introduction to Forensic Science \& Criminalistics ..... (3)
CRJ 235* Delinquent Behavior (*not available at CCD) ..... (3)
CRJ 236 Criminal Justice Research Methods ..... (3)
CRJ 257 Victimology ..... (3)
CRJ 268* Criminal Profiling (*not available at CCD) ..... (3)
Choose three courses from the following:** ..... 9
ANT 201 Introduction to Forensic Anthropology: GT-SS3 ..... (3)
CNG 258* Computer Forensics (*not available at CCD) ..... (3)
COM 217* Group Communication (*not available at CCD) ..... (3)
POS 111 American Government: GT-SS1 (3)
(3)
PSY 207 Introduction to Forensic Psychology ..... (3)
PSY 217 Human Sexuality: ..... GT-SS3 ..... (3)
PSY 226 Social Psychology: ..... (3)
GT-SS3 PSY 249 Abnormal Psychology: ..... (3)
GT-SS3
ElectivesTotal60

NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.
**If these courses are applied to the second section (Additional Required Courses) for credit, they may NOT be applied to the first section (General Education Requirements) for credit.

NOTE: Additional CRJ courses beyond the courses identified above may not count toward the Criminal Justice major at the receiving 4-year institution. Please see a Program Advisor for more information.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

## Associate Degree of Arts - Economics Designation

| General Education Course Requirements: |  | 40 |
| :---: | :---: | :---: |
| Communication |  | 6 |
| ENG 121 English Composition I: | GT-CO1 | 3 |
| ENG 122 English Composition II: | GT-CO2 | 3 |
| OR |  |  |
| ENG 122 English Composition II: | GT-CO3 | (3) |
| AND |  |  |
| a GT-CO3 course | GT-CO3 |  |
| Mathematics |  | 5 |
| MAT 201 Calculus I: | GT-MA1 | 5 |
| Arts \& Humanities |  | 9 |
| Three guaranteed transfer Arts \& Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4) |  |  |
| History |  | 3 |
| One guaranteed transfer History course | GT-HI1 |  |
| Social \& Behavioral Sciences |  | 6 |
| ECO 201 Principles of Macroeconomics: | GT-SS1 | 3 |
| ECO 202 Principles of Microeconomics: | GT-SS1 | 3 |
| Natural \& Physical Sciences |  | 8 |


| Two guaranteed transfer Natural \& Physical Sciences courses(GT-SC1, GT-SC2) |  |  |  |
| :---: | :---: | :---: | :---: |
| Additional Required Courses |  |  |  |
| MAT 135 | Introduction to Statistics: | GT-MA1 | 3 |
| Electives |  |  | 2 |

NOTE: Not all courses listed below are available at CCD.
ACC 121, 122
ANT - all courses
ARA - all courses 111 and higher
ART - all courses
ASL - all courses 121 and higher
AST - all courses
BIO - all courses
BUS 115, 216, 217, 226
CHE - all courses
CHI - all courses 111 and higher
CIS 118
COM - all courses
CRJ 110
EDU 221
ENG 131, ENG 221, ENG 222
ENV 101
FRE - all courses 111 and higher
GEO - all courses
GER - all courses 111 and higher
GEY - all courses
HIS - all courses
HUM - all courses
ITA - all courses 111 and higher
JOU - all courses
JPN - all courses 111 and higher
LIT - all courses
MAT 120, 121, 123, 125, 155, 202, 204, 266
MUS - all courses
PHI - all courses
PHY - all courses
POS - all courses
PSY 101, 102, 205, 217, 226, 227, PSY 235, 238, 240, 249

SCI 155, 156
SOC - all courses
SPA - all courses 111 and higher
THE - all courses
Total
NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

Associate Degree of Arts - French Designation ${ }^{1}$
General Education Course Requirements:2 31

| Communication |  | $\mathbf{6}$ |  |
| :--- | :--- | :--- | :--- |
| ENG | 121 | English Composition I: | GT-CO1 |
| ENG | 122 | English Composition II: | 3 |
|  | OR | GT-CO2 | 3 |
| ENG | 122 | English Composition II: |  |
| AND |  |  |  |
| a GT-CO3 course |  |  |  |
| Mathematics | GT-CO2 | (3) |  |
| One guaranteed transfer Mathematics course (GT-MA1) |  |  |  |
| Arts \& Humanities |  |  |  |
| FRE | 211 | French Language III: | GT-AH4 |
| FRE | 212 | French Language IV: | GT-AH4 |

One guaranteed transfer Arts \& Humanities course
(GT-AH1, GT-AH2, GT-AH3, GT-AH4)
History 3

One guaranteed transfer History course (GT-HI1) 3
Social \& Behavioral Sciences 3
One guaranteed transfer Social \& Behavioral Sciences course
(GT-SS1, GT-SS2, GT-SS3)
Natural \& Physical Sciences 7
Two guaranteed transfer Natural \& Physical Sciences courses
(GT-SC1, GT-SC2)
Additional Required Courses 10
FRE $111^{* *}$ French Language I 5
FRE 112** French Language II 5
**PLEASE NOTE: FRE 111 and/or 112 may be waived, based on a student's proficiency level.

| Electives |
| :--- |
| NOTE: Not all courses listed below are available at CCD. |
| ANT $101,211,212$ |
| COM 115,125 (see NOTE4 below) |
| DAN $117,118,229$ |
| EDU 231 |
| ENV 101 |
| ETH 106, 224 |
| FOR 111 - any foreign language other than FRE |
| FOR 112 - any foreign language other than FRE |
| FOR 211 - any foreign language other than FRE |
| FOR 212 - any foreign language other than FRE |
| GEO 105 |
| HIS $101,102,111,112,247,255,260$ |
| HUM 237 |
| LIT $201,202,205$ |
| MUS 123 |
| POS 205 |
| Total |

[^0]with Secondary Teacher Licensure" have different requirements and are not included in this agreement.
${ }^{3}$ CSU-Ft. Collins requires two non-US History courses.
${ }^{4}$ PLEASE NOTE: : It is recommended, but not required, that a student take either COM 115 (Public Speaking) or COM 125 (Interpersonal Communication).

NOTE: Additional FRE courses identified above may not count toward the French major at the receiving 4-year institution. Please see a Program Advisor for more information.
NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

| Associate Degree of Arts - History Designation General Education Course Requirements: |  |  | 34 |
| :---: | :---: | :---: | :---: |
| Communication |  |  | 6 |
| ENG 121 | English Composition I: | GT-CO1 | 3 |
| ENG 122 | English Composition II: | GT-CO2 | 3 |
| OR |  |  |  |
| ENG 122 | English Composition II: | GT-CO2 | (3) |
| AND |  |  |  |
|  | a GT-CO3 course | GT-CO3 |  |
| Mathematics |  |  | 3 |
| One guara | teed transfer Mathematics course | GT-MA1 |  |
| Arts \& Humanities |  |  | 9 |

Arts \& Humanities
Three guaranteed transfer Arts \& Humanities courses
(GT-AH1, GT-AH2, GT-AH3, GT-AH4)

| History |  |  |  | 3 |
| :---: | :---: | :---: | :---: | :---: |
| HIS | 101 | Western Civ: Antiquity-1650: | GT-HI1 | 3 |
| OR |  |  |  |  |
| HIS | 111 | The World: Antiquity-1500: | GT-HI1 | (3) |

Social \& Behavioral Sciences
Two guaranteed transfer Social \& Behavioral Sciences courses
(GT-SS1, GT-SS2, GT-SS3)
Natural \& Physical Sciences 7

|  | $\begin{aligned} & \text { guara } \\ & \text { C1, } \end{aligned}$ | teed transfer Natural \& Physica $-S C 2)$ | ourses |  |
| :---: | :---: | :---: | :---: | :---: |
|  | tiona | Required Courses |  | 15 |
| HIS | 102 | Western Civ: 1650-Present: | GT-HI1 | 3 |
|  |  | OR |  |  |
| HIS | 112 | The World: 1500-Present: | GT-HI1 | (3) |
| HIS | 201 | US History to Reconstruction: | GT-HI1 | 3 |
| HIS | 202 | US History Since the Civil War: | GT-HI1 | 3 |
|  | additi | nal guaranteed transfer History | GT-HI1 | 3 |


| COM 115 | Public Speaking | 3 |
| :--- | :--- | :---: |
|  | OR | (3) |
| COM 125 | Interpersonal Communication |  |

Electives 11

NOTE: Not all courses listed below are available at CCD.
ANT - all courses
ARA - all courses 111 and higher
ART - all courses
ASL - all courses 121 and higher
AST - all courses
BIO - all courses
CHE - all courses
CHI - all courses 111 and higher
CIS 118
COM - all courses
CRJ 110
DAN \& PED - all courses (up to 4 credits total)

ECE 101
ECO - all courses
EDU 221
ENG - all courses 121 and higher
ENV 101
FRE - all courses 111 and higher
GEO - all courses
GER - all courses 111 and higher
GEY - all courses
HIS - all courses
HUM - all courses
HWE 100
ITA - all courses 111 and higher
JOU - all courses
JPN - all courses 111 and higher
LIT - all courses
MAT - all courses 120 and higher
MGD - all courses
MUS - all courses
PHI - all courses
PHY - all courses
POS - all courses
PSY - all courses
SCI 155, 156
SOC - all courses
SPA - all courses 111 and higher
THE - all courses
WST - all courses
Total
60
NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

| Associate Degree of Arts - Political Science Designation |  |  |
| :---: | :---: | :---: |
| General Education Course Requirements: |  | 32 |
| Communication |  | 6 |
| ENG 121 English Composition I: | GT-CO1 | 3 |
| ENG 122 English Composition II: | GT-CO2 | 3 |
| OR |  |  |
| ENG 122 English Composition II: | GT-CO2 | (3) |
| AND |  |  |
| a GT-CO3 course | GT-CO3 |  |
| Mathematics |  | 3 |
| One guaranteed transfer Mathematics course | GT-MA1 |  |
| Arts \& Humanities |  | 6 |
| Two guaranteed transfer Arts \& Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4) |  |  |
| History |  | 3 |
| One guaranteed transfer History course | GT-HI1 |  |
| Social \& Behavioral Sciences |  | 6 |
| ECO 201 Principles of Macroeconomics: | GT-SS1 | 3 |
| ECO 202 Principles of Microeconomics: | GT-SS1 | 3 |
| Natural \& Physical Sciences |  | 8 |
| Two guaranteed transfer Natural \& Physical Sciences courses |  |  |
|  | GT-SC1 |  |
| Additional Required Courses |  | 12 |
| POS 105 Introduction to Political Science: | GT-SS1 | 3 |
| POS 111 American Government: | GT-SS1 | 3 |
| POS 205 International Relations: | GT-SS1 | 3 |
| POS 225 Comparative Government: | GT-SS1 | 3 |


| Electives |
| :--- |
| NOTE: Not all courses listed below are available at CCD. |
| ACC 121, 122 |
| ANT - all courses |
| ARA - all courses 111 and higher |
| ART - all courses |
| AST - all courses |
| BIO - all courses |
| BUS 111, $216,217,226$ |
| CHE - all courses |
| CHI - all courses 111 and higher |
| CIS 118 |
| COM - all courses |
| CRJ 110 |
| EDU 221 |
| ENV 101 |
| FRE - all courses 111 and higher |
| GEO - all courses |
| GER - all courses 111 and higher |
| GEY - all courses |
| HIS - all courses |
| HUM - all courses |
| ITA - all courses 111 and higher |
| JOU - all courses |
| JPN - all courses 111 and higher |
| LIT - all courses |
| MAT - all courses 120 and higher |
| MUS - all courses |
| PHI - all courses |
| PHY - all courses |
| POS - all courses (see NOTE below) |
| PSY $101,102,205,217,226,227,235,240,249$ |
| SCI 155,156 |
| SOC - all courses |
| SPA - all courses 111 and higher |
| THE - all courses |
| WST 200 |

NOTE: Additional Political Science (POS) courses beyond the 4 courses (12 credit hours) identified above may not count toward the Political Science major at the receiving 4-year institution. Please see a Program Advisor for more information.

NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

Associate Degree of Arts - Psychology Designation

## General Education Course Requirements: 34-36

Communication 6

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

OR
ENG 122 English Composition II: GT-CO2

| AND |  |  |
| :---: | :---: | :---: |
| a GT-CO3 course | GT-CO3 |  |
| Mathematics |  | $\mathbf{3 - 4}$ |


| MAT 121 College Algebra: | GT-MA1 |  |
| :--- | :--- | :--- |
| Arts \& Humanities |  | $\mathbf{9}$ |

Arts \& Humanities
Three guaranteed transfer Arts \& Humanities courses
No more than two courses from any one category
(GT-AH1, GT-AH2, GT-AH3, GT-AH4)


NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

| Associate Degree of Arts - Socio General Education Course Requirements: | gnation | 35-36 |
| :---: | :---: | :---: |
| Communication |  | 6 |
| ENG 121 English Composition I: | GT-CO1 | 3 |
| ENG 122 English Composition II: | GT-CO2 | 3 |
| OR |  |  |
| ENG 122 English Composition II: | GT-CO2 | (3) |
| AND |  |  |
| a GT-CO3 course | GT-CO3 |  |
| Mathematics |  | 3-4 |
| MAT 121 College Algebra: | GT-MA1 | 4 |
| OR |  |  |
| MAT 135 Introduction to Statistics: | GT-MA1 | (3) |
| Arts \& Humanities |  | 9 |


| Three guaranteed transfer Arts \& Humanities courses |  |  |
| :--- | :--- | :--- |
| (GT-AH1, GT-AH2, GT-AH3, GT-AH4) |  |  |
| History |  | $\mathbf{3}$ |
| One guaranteed transfer History course | GT-HI1 | 3 |
| Social \& Behavioral Sciences |  | $\mathbf{6}$ |
| Two guaranteed transfer Social \& Behavioral Sciences courses |  |  |
| (GT-SS1, GT-SS2, GT-SS3) |  |  |
| Natural \& Physical Sciences | $\mathbf{8}$ |  |


| Two guaranteed transfer Natural \& Physical Sciences courses |  |  |  |
| :--- | :--- | :--- | ---: |
| (GT-SC1) |  |  |  |
| Additional Required Courses | $\mathbf{1 8}$ |  |  |
| COM | 115 | Public Speaking | 3 |
|  | OR |  |  |
| COM | 125 | Interpersonal Communication |  |
| SOC | 101 | Introduction to Sociology I: | GT-SS3 |
| SOC | 102 | Introduction to Sociology II: | GT-SS3 |
| The |  | 3 |  |


| Three additional guaranteed transfer Sociology courses |  |  |
| :--- | ---: | ---: |
| GT-SS3 | 9 |  |
| Electives |  | $\mathbf{6 - 7}$ |

NOTE: Not all courses listed below are available at CCD.
ACC 121, 122
ANT - all courses
ARA - all courses 111 and higher
ART - all courses
ASL - all courses 121 and higher
AST - all courses
BIO - all courses
BUS 115, 216, 217, 226
CHE - all courses
CHI - all courses 111 and higher
CIS 118
COM - all courses
CRJ 110
CSC 160, 161
DAN \& PED - all courses (up to 4 credits total)
ECE 101, 102, 205, 238, 241
ECO - all courses
EDU 221
ENG - all courses 121 and higher
ENV 101
FRE - all courses 111 and higher
GEO - all courses
GER - all courses 111 and higher
GEY - all courses
HIS - all courses
HUM - all courses
HWE 100
ITA - all courses 111 and higher
JOU - all courses
JPN - all courses 111 and higher
LIT - all courses
MAT - all courses 120 and higher
MGD - all courses
MUS - all courses
PHI - all courses
PHY - all courses
POS - all courses
PSY - all courses 101 and higher
SOC - all courses (see NOTE below)
SPA - all courses 111 and higher
THE - all courses
WST - all courses
Total

NOTE: Additional SOC courses beyond the 5 courses ( 15 credit hours) id tified above may not count toward the Sociology major at the receiving 4 -year institution. Please see a Program Advisor for more information.

NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

## Associate Degree of Arts - Spanish Designation

General Education Course Requirements: 34
Communication 6

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


| ENG | 122 | English Composition II: | GT-CO2 | 3 |
| :--- | :--- | :--- | :--- | :--- |
|  |  | OR |  |  |
| ENG | 122 | English Composition II: | GT-CO3 |  |


| AND |  |  |  |
| :--- | :--- | :--- | :--- |
| a GT-CO3 course | GT-CO3 |  |  |
| Mathematics |  | $\mathbf{3}$ |  |
| One guaranteed transfer Mathematics course | GT-MA1 |  |  |
| Arts \& Humanities |  | $\mathbf{9}$ |  |
| SPA | 211 | Spanish Language III: | GT-AH4 |
| SPA | 212 | Spanish Language IV: | GT-AH4 |
| O |  |  | 3 |

One guaranteed transfer Arts \& Humanities course 3
(AH-1, AH-2, AH-3, AH-4)
NOTE: Those students who have a higher proficiency level than is required for SPA 211 or SPA 212 should substitute other Arts \& Humanities courses. Heritage speakers may want to substitute SPA 261 (Grammar-Heritage Lang Speaker) and SPA 262 (Comp-Heritage Lang Speaker), if available.

| History |  | 3 |  |
| :--- | :--- | :--- | :--- |
| HIS | 244 | History of Latin America: | GT-HI1 |

or another guaranteed transfer History course (GT-HI1) focusing on the Spanish-speaking world (non-U.S.) or another guaranteed transfer non-
U.S. History course. (Please see a Program Advisor for assistance.)
Social \& Behavioral Sciences6

Two guaranteed transfer Social \& Behavioral Sciences courses
(GT-SS1, GT-SS2, GT-SS3)
Natural \& Physical Sciences
Two guaranteed transfer Natural \& Physical Sciences courses.
One of these courses must have the required laboratory (GT-SC1)
GT-SC1
Additional Required Courses 13
SPA 111 Spanish Language I 5
SPA 112 Spanish Language II 5
NOTE: SPA 111 or SPA 112 may be waived, based on a student's proficiency level. Students should consult a departmental advisor at the four-year college or university.

| COM 115 | Public Speaking (recommended) | 3 |
| :---: | :---: | :---: |
| OR |  |  |
| COM 125 | Interpersonal Communication | (3) |
| Electives |  | 13 |
| NOTE: Not all courses listed below are available at CCD. |  |  |
| ANT 101, 211, 212 |  |  |
| DAN 117, 118, 119 |  |  |
| EDU 231 |  |  |
| ETH 106, 224 |  |  |
| GEO 105 |  |  |
| HIS 209, 225, 244, 246, 247, 260 |  |  |
| HUM 237 |  |  |
| LIT 201, 202, 205 |  |  |
| MUS 123 |  |  |
| POS 205 |  |  |
| SPA 201, 202, 215, 235, 261, 262 |  |  |
| FOR 111 - any foreign language other than SPA |  |  |
| FOR 112 - any foreign language other than SPA |  |  |
| FOR 211 - any foreign language other than SPA |  |  |
| FOR 212 - any foreign language other than SPA |  |  |
|  | Total | 60 |

NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

## Associate Degree of Science - Engineering Designation

 Specific information regarding these degree plans can be found at the following website: http://highered.colorado.gov/Academics/TransfersNOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

| Associate Degree of Science - Mathematics Designation |  |  |
| :---: | :---: | :---: |
| General Education Course Requirements: |  | 39 |
| Communication |  | 6 |
| ENG 121 English Composition I: | GT-CO1 | 3 |
| ENG 122 English Composition II: | GT-CO2 | 3 |
| OR |  |  |
| ENG 122 English Composition II: | GT-CO2 | (3) |
| AND |  |  |
| a GT-CO3 course | GT-CO3 |  |
| Mathematics 5 |  |  |
| MAT 201 Calculus I: | GT-MA1 |  |
| Arts \& Humanities |  | 9 |


| Three guaranteed transfer Arts \& Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4) |  |
| :---: | :---: |
| History | 3 |
| One guaranteed transfer History course | GT-HI1 |
| Social \& Behavioral Sciences | 6 |
| Two guaranteed transfer Social \& Behavioral Sciences courses |  |
| Natural \& Physical Sciences | 10 |
| PHY 211 Physics: Calculus-based I with Lab: | GT-SC1 5 |
| PHY 212 Physics: Calculus-based II with Lab: | GT-SC1 5 |
| Additional Required Courses | 16-17 |
| COM 115 Public Speaking | 3 |
| OR |  |
| COM 125 Interpersonal Communication | (3) |
| MAT 202 Calculus II: | GT-MA1 |



NOTE: Course substitutions are not permitted for any Statewide Transfer Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

## Associate Degree of Science - Psychology Designation

 General Education Course Requirements: 38Communication 6

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

ENG 122 English Composition II: GT-CO2

| ENG 122 English Composition II: GT-CO2 (3) |
| :--- | :--- |
| AND |


| a GT-CO3 course |  | GT-CO3 |
| :--- | :--- | :--- |
| Mathematics |  | $\mathbf{4}$ |
| MAT 121 GT-MA1 | 4 |  |
| Arts \& Humanities Algebra: |  | $\mathbf{3}$ |
| PHI 111 Introduction to Philosophy: | GT-AH3 | 3 |

PHI 112 Ethics: GT-AH3 (3)
Six additional credits from at least two different categories of guaranteed transfer Arts \& Humanities courses
(GT-AH1, GT-AH2, GT-AH3, GT-AH4) 6
History 3

| One guaranteed transfer History course | GT-HI1 |
| :--- | :--- |
| Social \& Behavioral Sciences |  |


| Two guaranteed transfer Social \& Behavioral Sciences courses |
| :--- |
| (GT-SS1, GT-SS2, GT-SS3) |
| Natural \& Physical Sciences |

$\begin{array}{lllr}\text { Natural \& Physical Sciences } & & \mathbf{1 0} \\ \begin{array}{lllll}\text { BIO } & 111 & \text { General College Biology I ( } \text { with lab): } & \text { GT-SC1 } & 5\end{array}\end{array}$
CHE 111 General College Chemistry (with lab): GT-SC1 5
Additional Required Courses 9
PSY 101 General Psychology I: GT-SS3 3
PSY 102 General Psychology II: GT-SS3 3

COM 115 Public Speaking 3 OR
COM 125 Interpersonal Communication
Electives
NOTE: Not all courses listed below are available at CCD.
ANT - all courses
ARA - all courses 111 and higher
ASL - all courses 121 and higher
AST - all courses
BIO - all courses 111 and higher
CHE - all courses
CHI - all courses 111 and higher
CIS 118
COM - all courses
CRJ 100
CSC 160, CSC 161
ECO - all courses 101 and higher
EDU 221
ENG - all courses 121 and higher ENV 101
FRE - all courses 111 and higher
GEO - all courses
GER - all courses 111 and higher
GEY - all courses
HIS - all courses
HUM - all courses
ITA - all courses 111 and higher
JOU - all courses
JPN - all courses 111 and higher
LIT - all courses
MAT - all courses 120 and higher
PHI - all courses
PHY - all courses
POS - all courses
PSY - all courses ( $200,258,265,268$ recommended)
SOC - all courses
SPA - all courses 111 and higher
WST - all courses
Total
$\overline{N O T E: ~ C o u r s e ~ s u b s t i t u t i o n s ~ a r e ~ n o t ~ p e r m i t t e d ~ f o r ~ a n y ~ S t a t e w i d e ~ T r a n s f e r ~}$ Degree program.

If, because course substitutions are not permitted, a student is not able to complete a transfer degree plan, the student should see a Program Advisor for guidance on completion of an Associate of Arts or Associate of Science degree.

## ARTICULATION AGREEMENTS

Early Childhood Teacher Education Transfer Agreement
The following courses represent the statewide transfer agreement between the Colorado Community College System and all Colorado fouryear institutions offering Early Childhood Teacher Education preparation programs. The first 54 credit hours are common for all transfer institutions. The final 6 elective credits must be determined with the assistance of an advisor as they are specific to the receiving institution. All interested students should meet with a Program Advisor to select appropriate electives.


MAT 156* Integrated Math II (*not offered at CCD) (3)
Arts \& Humanities 6
Choose two courses from the following:

| ART | 110 | Art Appreciation: | GT-AH1 | 3 |
| :--- | :--- | :--- | :--- | :--- |
| LIT | 115 | Introduction to Literature I: | GT-AH2 | 3 |
| LIT | 255 | Children's Literature |  | 3 |
| MUS | 120 | Music Appreciation: | GT-AH1 | 3 |
| Social \& Behavioral Sciences |  | $\mathbf{9}$ |  |  |
| GEO | 105 | World Regional Geography: | GT-SS2 | 3 |
| HIS | 201 | US History to Reconstruction: | GT-HI1 | 3 |
| POS | 111 | American Government: | GT-SS1 | 3 |
| Natural \& Physical Sciences |  | $\mathbf{8}$ |  |  |

SCI 155 Integrated Science I - Physics \& Chemistry:
GT-SC1 4
SCI 156 Integrated Science II - Earth \& Life Science:
GT-SC1 4

Additional Required Courses 19
COM 115 Public Speaking 3
ECE 101 Introduction to Early Childhood Education 3
ECE 102 Introduction to Early Childhood Lab Techniques 3
ECE 188 Practicum: Early Childhood Education 1 OR
ECE 209 Observing \& Utilizing Young Children's Assessment Instruments(1)
ECE 205 Nutrition, Health, and Safety ..... 3
ECE 238 Child Growth and Development ..... 3
ECE 241 Administration: Human Relations for Early Childhood Education ..... 3
Electives ..... 6

Six credits determined by the transferring institution. Please see a Program Advisor for more information. Total

## Elementary Education Articulation Agreement

The following courses represent the statewide transfer agreement between the Colorado Community College System and all Colorado fouryear institutions offering Elementary Education teacher preparation programs. The first 41 credit hours are common for all transfer institutions. The final 19 elective credits must be determined with the assistance of an advisor as they are specific to the receiving institution. ENG 121 must be completed with a grade of $B$ or better for transfer. All interested students
should contact the Center for Career and Technical Education to meet with a Program Advisor and to select appropriate electives.

| Required Courses that Fulfill General Education Requirements: |  | 35 |
| :---: | :---: | :---: |
| English |  | 6 |
| ENG 121* English Composition I: | GT-CO1 | 3 |
| ENG 122 English Composition II: | GT-CO2 | 3 |
| Communication |  | 3 |
| COM 115 Public Speaking |  | 3 |
| Mathematics |  | 6 |
| MAT 155* Integrated Math I (*not offered at CCD) |  | 3 |
| MAT 156* Integrated Math II (*not offered at CCD) |  | 3 |
| Arts \& Humanities |  | 3 |
| LIT 115 Introduction to Literature I: | GT-AH2 | 3 |
| OR |  |  |
| LIT 201 World Literature to 1600: | GT-AH2 | (3) |
| OR |  |  |
| LIT 202 World Literature after 1600: | GT-AH2 | (3) |
| OR |  |  |
| LIT 211 American Literature to Civil War: | GT-AH2 | (3) |
| OR |  |  |
| LIT 221* British Literature to 1770: (* not offered at CCD) | GT-AH2 | (3) |
| Social \& Behavioral Sciences |  | 9 |
| GEO 105 World Regional Geography: | GT-SS2 | 3 |
| HIS 201 United States History I: | GT-HI1 | 3 |
| POS 111 American Government: | GT-SS1 | 3 |
| Physical \& Biological Sciences |  | 8 |
| SCI 155 Integrated Science I: | GT-SC1 | 4 |
| SCI 156 Integrated Science II: | GT-SC1 | 4 |
| Education Requirements |  | 6 |
| EDU 221 Introduction to Education |  | 3 |
| PSY 238 Child Development: GT-SS3 | GT-SS3 | 3 |
| Electives |  | 19 |

To be determined by home and transferring institution. See a Program Advisor for more information.

## Total

60

* ENG 121 must be completed with a grade of B or better.

NOTE: Some institutions may require prescribed general education courses in addition to the courses listed above. If so, these must either be included among the final 19 credit hours at the community college or must be completed at the 4-year institution to complete the baccalaureate degree. Please see a Program Advisor for more information.

## ASSOCIATE OF ARTS DEGREE AND PLANS OF STUDY

## University Parallel, Transfer Program

An Associate of Arts (AA) degree provides a learning foundation in communications, social sciences, arts, and humanities. Some students work toward the AA degree for purposes of personal enrichment. Many others plan to transfer to four-year colleges and universities to continue their work toward baccalaureate degrees and pre-professional training in such fields as law, business, education, the arts, and social sciences. A student can complete this program in four semesters, going full-time and carrying the required number of hours. A student may choose, due to personal circumstances, to extend the amount of time for completion. The AA degree sometimes is referred to as a "university parallel" or "transfer" degree. The general education core requirements, when completed at CCD, meet the lower-division general education requirements of all public baccalaureate colleges and universities in Colorado. Students graduating with the AA degree may transfer into liberal arts programs in most public baccalaureate colleges and universities with junior standing. Courses to be counted toward the general education core curriculum must be completed with a grade of $C$ or higher. Students planning to transfer should familiarize themselves with the full require-
ments of the school to which they plan to transfer and should consult with their Program Advisor.

Student Performance Objectives for Transfer Education Community College of Denver's Institutional Outcomes<br>- A CCD graduate is a COMPLEX THINKER<br>- A CCD graduate is an EFFECTIVE AND ETHICAL USER OF TECHNOLOGY<br>- A CCD graduate is an EFFECTIVE COMMUNICATOR<br>- A CCD graduate is GLOBALLY AWARE<br>- A CCD graduate is PERSONALLY RESPONSIBLE<br>- A CCD graduate is a NUMERIC THINKER

## AA Degree Program Requirements

Within the AA degree, the college offers plans of study in the following areas: Art, Behavioral Sciences, English/Journalism, English/Writing, Graphic Design, Music Industry Studies/Music Business/Recording Arts, Music Performance, Theatre, and World Languages. The same course may not count toward both the general education requirements and the area of study. A plan of study consists of at least four identified courses in one academic area. If students do not select a plan of study or have fewer than 60 credit hours with their core courses and plan of study, they should take transfer electives (GT Pathways) as needed to complete the 60 credit hours required for the AA degree. Up to 4 credits of physical education may apply to this degree. All courses must be completed with a grade of $C$ or better. All graduates of the AA degree must meet the program requirements listed in the Associate of Arts Degree Plan below.

NOTE: Students who have taken prerequisite courses longer than seven years ago are strongly encouraged to take an assessment test over the prerequisite material to ensure adequate prior knowledge to be successful in future courses. The outcome of the assessment test will help the student determine whether or not he or she needs to re-take the prerequisite course. The assessment test is available in the CCD Testing Center.

For Health Science degrees, because of program accreditation requirements, students must have completed all science courses within the previous seven years before the first day of class in a health program.

## Associate of Arts Degree Plan

| Required Courses That Fulfill General Education Requirements: | 37 |
| :--- | ---: |
| Written Communication | 6 |


| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| :--- | :--- | :--- | :--- | :--- |
|  | AND |  |  |  |
| ENG | 122 | English Composition II: | GT-CO2 | 3 |
|  |  | OR |  |  |
| ENG | 122 | English Composition II: | GT-CO2 | (3) |
|  | AND |  |  |  |
|  | a GT-CO3 course | GT-CO3 |  |  |


| Oral Communication | $\mathbf{3}$ |
| :--- | :--- |
| COM 115 Public Speaking | 3 |


| COM 115 | Public Speaking | 3 |
| :--- | :--- | :---: |
|  | OR | (3) |
| COM 125 | Interpersonal Communication |  |
|  | OR | GT-SS3 |
| COM 220 | Intercultural Communication: | (3) |
| Mathematics | $\mathbf{3}$ |  |

Mathematics 120 or any guaranteed transfer Math course (GT-MA1)
Arts \& Humanities
Six credits of guaranteed transfer Arts \& Humanities courses from two different areas (GT-AH1, GT-AH2, GT-AH3, GT-AH4)

| Arts \& Expression | GT-AH1 |
| :--- | :--- |
| Literature \& Humanities | GT-AH2 |
| Ways of Thinking | GT-AH3 |
| Foreign Language | GT-AH4 |


| al \& Behavioral Sciences | 6 |
| :---: | :---: |
| Six credits of guaranteed transfer Social and Behavioral Sciences courses from two different areas (GT-SS1, GT-SS2, GT-SS3) |  |
| Economic or Political Systems | GT-SS1 |
| Geography | GT-SS2 |
| Human Behavior, Culture or Social Frameworks | GT-SS3 |
| History | 3 |
| Three credits of guaranteed transfer History courses (GT-HI1) |  |
| History | GT-HI1 |
| Three credits of guaranteed transfer of the student's choosing from any courses in the listed areas: |  |
| GT-AH1, GT-AH2, GT-AH3, GT-AH4, GT-SS1, GT-SS2, GT-SS3, GT-HI1 |  |
| Natural \& Physical Sciences | 7 |
| Two guaranteed transfer Natural \& Physical Sciences at least one lab course | courses including <br> GT-SC1/GT-SC2 |
| Electives | 23 |
| NOTE: Not all courses listed below are available at CCD. ACC 121, 122 |  |
|  |  |
| ANT - all courses |  |
| ARA - all courses 111 and higher |  |
| ART - all courses |  |
| ASL - all course 121 and higher |  |
| AST - all courses |  |
| BIO - all courses |  |
| BUS 115, 216, 217, 226 |  |
| CHE - all courses |  |
| CHI - all courses 111 and higher |  |
| CIS 118 |  |
| COM - all courses |  |
| CRJ 110 |  |
| DAN \& PED - all courses (up to 4 credits total) |  |
| ECE 101, 102, 205, 238, 241 |  |
| ECO - all courses |  |
| EDU 221 |  |
| ENG - all courses 121 and higher |  |
| ENV 101 |  |
| FRE - all courses 111 and higher |  |
| GEO - all courses |  |
| GER - all courses 111 and higher |  |
| GEY - all courses |  |
| HIS - all courses |  |
| HUM - all courses |  |
| HWE 100 |  |
| ITA - all courses 111 and higher |  |
| JOU - all courses |  |
| JPN - all courses 111 and higher |  |
| LIT - all courses |  |
| MAT - all courses 120 and higher |  |
| MGD - all courses |  |
| MUS - all courses |  |
| PHI - all courses |  |
| PHY - all courses |  |
| POS - all courses |  |
| PSY - all courses |  |
| SCI 155, 156 |  |
| SOC - all courses |  |
| SPA - all courses 111 and higher |  |
| THE - all courses |  |
| WST - all courses |  |
| Total | 60 |

6 AA Degree Subject Area Plans of Study (Recommended)
A Plan of Study consists of at least 4 courses from the same or a related subject area (course prefix). Students should confer with a Program Advisor in the areas of study in order to determine whether or not courses will transfer. The area of study will not appear on student's transcripts or degree.

| Art |  |  |  |
| :--- | :--- | :--- | ---: |
| ART | 121 | Drawing I | 3 |
| ART | 221 | Drawing II | 3 |
| ART | 131 | 2-D Design | 3 |
| ART | 132 | 3-D Design | 3 |
| ART | 151 | Painting I | 3 |
| ART | 251 | Painting II | 3 |
| Total |  |  | $\mathbf{1 8}$ |
|  |  | $4-7$ |  |
| The following may be taken as Art electives | (3) |  |  |
| ART | 124 | Watercolor I | (3) |
| ART | 138 | Film Photography I | (3) |
| ART | 139 | Digital Photography I | (3) |
| ART | 128 | Figure Drawing I | (3) |
| ART | 252 | Painting III | (3) |
| ART | 253 | Painting IV | (3) |
| MGD | 101 | Introduction to Computer Graphics | (3) |
| MGD | 116 | Typography I |  |

Students choosing the AA Degree with electives in ART should take the following courses from the Arts and Humanities list under the General Education Requirements.

| ART | 111 | Art History Ancient to Medieval: | GT-AH1 | 3 |
| :--- | ---: | :--- | ---: | ---: |
| ART | 112 | Art History Renaissance to Modern: | GT-AH1 | 3 |
|  |  | Total Art Area of Study |  | $\mathbf{2 4 - 2 6}$ |

## Behavioral Sciences

See also: Associate Degree of Arts - Anthropology Designation on page 48 Associate Degree of Arts - Psychology Designation on page 52 Associate Degree of Science - Psychology Designation on page 54 Associate Degree of Arts - Sociology Designation on page 53

Select 4 courses from the three options listed below. It is highly recommended that students take 6 credit hours of 200 level courses Total

## Anthropology

| ANT | 101 | Cultural Anthropology: | GT-SS3 | 3 |
| :--- | :--- | :--- | :--- | :--- |
| ANT | 107 | Introduction to Archaeology: | GT-SS3 | 3 |
| ANT | 111 | Physical Anthropology: | GT-SS3 | 3 |
| ANT | 201 | Introduction to Forensic Anthropology: | GT-SS3 | 3 |
| ANT | 215 | Indians of North America: | GT-SS3 | 3 |
| ANT | 225 | Anthropology of Religion |  | 3 |
| ANT | 260 | Sex, Gender and Culture |  | 3 |

Psychology

| PSY | 101 | General Psychology I: | GT-SS3 | 3 |
| :--- | :--- | :--- | :--- | :--- |
| PSY | 102 | General Psychology II: | GT-SS3 | 3 |
| PSY | 110 | Career Development |  | 3 |
| PSY | 112 | Psychology of Adjustment |  | 3 |
| PSY | 200 | Research Methodology |  | 3 |
| PSY | 205 | Psychology of Gender: | GT-SS3 | 3 |
| PSY | 207 | Introduction to Forensic Psychology |  | 3 |
| PSY | 217 | Human Sexuality: | GT-SS3 | 3 |
| PSY | 226 | Social Psychology: | GT-SS3 | 3 |
| PSY | 227 | Psychology of Death and Dying: | GT-SS3 | 3 |
| PSY | 231 | Positive Psychology |  | 3 |
| PSY | 235 | Human Growth and Development: | GT-SS3 | 3 |


| PSY 238 | Child Development: | GT-SS3 | 3 |
| :---: | :---: | :---: | :---: |
| PSY 240 | Health Psychology: | GT-SS3 | 3 |
| PSY 249 | Abnormal Psychology: | GT-SS3 | 3 |
| PSY 258 | Introduction to Neuropsychology |  | 3 |
| PSY 265 | Psychology of Personality |  | 3 |
| PSY 268 | Organizational Psychology |  | 3 |
| PSY 269 | Psychology of Leadership |  | 3 |
| Sociology |  |  |  |
| SOC 101 | Introduction to Sociology I: | GT-SS3 | 3 |
| SOC 102 | Introduction to Sociology II: | GT-SS3 | 3 |
| SOC 201 | Introduction to Gerontology |  | 3 |
| SOC 203 | Urban Socio-Anthropology |  | 3 |
| SOC 205 | Sociology of Family Dynamics: | GT-SS3 | 3 |
| SOC 207 | Environmental Sociology: | GT-SS3 | 3 |
| SOC 210 | Technology and Society |  | 3 |
| SOC 215 | Contemporary Social Problems: | GT-SS3 | 3 |
| SOC 216 | Sociology of Gender: | GT-SS3 | 3 |
| SOC 218 | Sociology of Diversity: | GT-SS3 | 3 |
| SOC 220 | Sociology of Religion: | GT-SS3 | 3 |
| SOC 223 | Chicanos in a Changing Society |  | 3 |
| SOC 231 | Sociology of Deviant Behavior: | GT-SS3 | 3 |
| SOC 237 | Sociology of Death and Dying: | GT-SS3 | 3 |
| SOC 265 | Violence and Culture |  | 3 |
| English/Journalism Plan of Study |  |  |  |
| Select 4 courses from the following |  |  |  |
| JOU 105 | Introduction to Mass Media: | GT-SS3 | 3 |
| JOU 106 | Fundamentals of Reporting |  | 3 |
| JOU 206 | Intermediate Newswriting \& Editing |  | 3 |
| JOU 225 | Internet Media |  | 3 |
| JOU 241 | Feature and Magazine Writing |  | 3 |
| Total |  |  | 12 |

## Electives

11 additional credits
Select from the AA Approved Electives Course List. It is highly
recommended that students take 6 credit hours in 200-level courses.
English/Writing Plan of Study

| Select 4 courses from the following |  |  |  |
| :--- | :--- | :--- | :--- |
| ENG | 201 | Writing for Public Discourse: | GT-CO3 |
| ENG | 221 | Creative Writing I | 3 |
| ENG | 226 | Fiction Writing | 3 |
| ENG | 227 | Poetry Writing | 3 |
| ENG | 228 | Writing for the Graphic Novel | 3 |
| ENG | 230 | Creative Nonfiction | 3 |
| ENG | 236 | Writing the Film | 3 |
| JOU | 106 | Fundamentals of Reporting | 3 |
| JOU | 241 | Feature and Magazine Writing | 3 |
|  |  | Total | 3 |

## Electives

11 additional credits
Select from the AA Approved Electives Course List. It is highly
recommended that students take 6 credit hours in 200-level courses.

## Graphic Design Plan of Study

ART 121 Drawing I 3
ART 131 2-D Design 3
MGD 101 Introduction to Computer Graphics 3
MGD 105 Typography and Layout 3
MGD 112 Adobe Illustrator I 3
MGD 116 Typography I 3
Subtotal

| Add $\mathbf{1}$ to $\mathbf{2}$ courses from one of the following: |  |  |
| :--- | :--- | ---: |
| ART | 132 | 3-D Design |
| ART | 211 | Painting I |
| MGD | 114 | Adobe InDesign |
|  |  | Total |

Students choosing the AA Degree with study in Graphic Design should take the following courses from the Art and Humanities list under the General Education Core Requirements.

| ART | 111 | Art History I: | GT-AH1 | 3 |
| :--- | :--- | :--- | :--- | :--- |
| ART | 112 | Art History II: | GT-AH1 | 3 |

## Music Industry Studies/Music Business/Recording Arts Plan of Study for transfer to UC Denver

Students should meet with 4-year school advisor if planning to transfer prior to their third semester.
First Semester - Fall
MUS 100 Introduction to Music Theory I 3
MUS 151 Ensemble I 1
Second Semester - Spring
MUS 141 Private Instruction I 2
MUS 152 Ensemble II 1
MUS 161 Computer Music Applications I 3
Third Semester - Fall (meet with UC Denver advisor)
MUS 110 Music Theory I 3
MUS 112 Ear Training/Sight-Singing I Lab 1
MUS 131 Music Class I: Piano 2
MUS 162 Computer Music Applications II 3
Fourth Semester - Spring
MUS 111 Music Theory II 3
MUS 113 Ear Training/Sight-Singing II Lab 1
MUS 132 Music Class II: Piano 2
Total 25

## Music Performance Plan of Study

First Semester - Fall
MUS 100 Introduction to Music Theory I 3
MUS 141 Private Instruction I 2
MUS 151 Ensemble I 1
Second Semester - Spring
MUS 142 Private Instruction II 2
Third Semester - Fall

| (meet with 4-year school advisor if planning to transfer) |
| :--- | :--- |
| MUS $110 \quad$ Music Theory I |

MUS 112 Ear Training/Sight-Singing I Lab 1
MUS 131 Music Class I: Piano 2
MUS 241 Private Instruction III 2
Fourth Semester - Spring
MUS 111 Music Theory II 3
MUS 113 Ear Training/Sight-Singing II Lab 1
MUS 132 Music Class II: Piano 2
MUS 242 Private Instruction IV 2
Total 24

Students choosing either AA Degree with Music area of study should take 2 of the following courses from the Art and Humanities list under the General Education Core Requirements.

| MUS | 120 | Music Appreciation: | GT-AH1 | 3 |
| :--- | :--- | :--- | :--- | :--- |
| MUS | 121 | Music History Medieval - Classical: | GT-AH1 | 3 |
| MUS | 122 | Music History Romantic - Present: | GT-AH1 | 3 |
| MUS | 123 | Survey of World Music: | GT-AH1 | 3 |

## Theatre Performance Plan of Study <br> Select 5 courses from the following:

THE 105 Theatre Appreciation: GT-AH1 (3)
(May be applied toward Arts \& Humanities Core Requirement)
THE 108 Theatre Script Analysis
(Optional, based on the total of core-curriculum credits earned.)
THE 110 Theatre in Denver
(3)

THE 111 Acting I (3)
THE 112 Acting II (3)
THE 115 Stage Movement for Actors (3)
THE 131 Theatre Production I (3)
THE 150 Comedy (3)
THE 284 Internship:Theatre (2)
Total 13-15
World Languages Plans of Study
French
See also: Associate Degree of Arts - French Designation on page 50
Spanish
See also: Associate Degree of Arts - Spanish Designation on page 53
German
Take the following 4 courses for the German Language.

| GER | 111 | German Language I |  | 5 |
| :--- | :--- | :--- | :--- | ---: |
| GER | 112 | German Language II | 5 |  |
| GER | 211 | German Language III: | GT-AH4 | 3 |
| GER | 212 | German Language IV: | GT-AH4 | 3 |
|  |  | Total Foreign Language Requirements |  | $\mathbf{1 6}$ |

## ASSOCIATE OF SCIENCE (AS) DEGREE AND PLANS OF STUDY

## University Parallel, Transfer Program

The AS degree provides a learning foundation in mathematics and the sciences. Although some students work toward the AS degree for personal enrichment, many plan to transfer to four-year colleges and universities to continue work toward a baccalaureate degree and professional training in such fields as engineering, medicine, mathematics, biology, chemistry and physics. A student can complete this program in four semesters, going full-time and carrying the required number of hours. A student may choose, due to personal circumstances, to extend the amount of time for completion.

The AS degree is sometimes referred to as a "university parallel" or "transfer" degree. The general education core requirements, when completed at CCD, meet the lower-division general education requirements of all public baccalaureate colleges and universities in the state of Colorado. Students graduating with the AS degree may transfer into liberal arts or sciences programs in all public baccalaureate colleges and universities with junior standing. Courses to be counted toward the general education core curriculum must be completed with a grade of C or higher. Students planning to transfer should familiarize themselves with the full requirements of the school they plan to attend. Many of these guides are available in the Transfer Center. Students should also check the website of their transfer school as well for the most recent information.

## Student Performance Objectives for Transfer Education (AS Degree) <br> Community College of Denver's Institutional Outcomes <br> - A CCD graduate is a COMPLEX THINKER <br> - A CCD graduate is an EFFECTIVE AND ETHICAL USER OF TECHNOLOGY <br> - A CCD graduate is an EFFECTIVE COMMUNICATOR <br> - A CCD graduate is GLOBALLY AWARE <br> - A CCD graduate is PERSONALLY RESPONSIBLE <br> - A CCD graduate is a NUMERIC THINKER

## AS Degree Program Requirements

Within the AS degree, the college offers 12 plans of study: Biology, Chemistry, Computer Science, Physics, Pre-Dental, Pre-Engineering, Pre-Medical, Pre-Nutrition, Pre-Pharmacy, Pre-Physician's Assistant, PrePhysical Therapy, and Pre-Veterinary Science. The general AS degree plan can be tailored to meet other areas of study. An associate degree can be earned without completing a study area. Students must complete a total of 60 credit hours for the associate degree. Of the 60 hours, 24 credit hours may come from courses within a study area. The same course cannot count toward both a general education and an area of study. Requirements in four-year or professional programs sometimes change yearly. Students should meet regularly with their Program Advisor to ensure satisfactory progress is being made toward completion of the AS degree and transferability of credit to a four-year institution or professional program.

NOTE: Students who have taken prerequisite courses longer than seven years ago are strongly encouraged to take an assessment test over the prerequisite material to ensure adequate prior knowledge to be successful in future courses. The outcome of the assessment test will help the student determine whether or not he or she needs to re-take the prerequisite course. The assessment test is available in the CCD Testing Center.

For Health Science degrees, because of program accreditation requirements, students must have completed all science courses within the previous seven years before the first day of class in a health program.

Associate of Science Degree Plan Required Courses That Fulfill General Education Requirements: 39
Written Communication 6

| ENG 121 | English Composition I: | GT-CO1 |  |
| :--- | :--- | :--- | :--- |
|  | AND |  |  |


| ENG | 122 | English Composition II: | GT-CO2 | 3 |
| :--- | :--- | :--- | :--- | :--- |
|  | OR |  |  |  |
| ENG | 122 | English Composition II: | GT-CO2 | (3) |


| Oral Communication |  | GT-CO3 |  |
| :---: | :---: | :---: | :---: |
|  |  |  | 3 |
| COM 115 | Public Speaking |  | 3 |
|  | OR |  |  |
| COM 125 | Interpersonal Communication |  | (3) |
|  | OR |  |  |
| COM 220 | Intercultural Communication: | GT-SS3 | (3) |
| Mathematics |  |  | 3 |
| MAT 121 | College Algebra: | GT-MA1 | 4 |
|  | OR |  |  |
| MAT 122 | College Trigonometry: | GT-MA1 | (3) |
|  | OR |  |  |
| MAT 166* | Pre-Calculus: (*not available at CCD) | GT-MA1 | (5) |
|  | OR |  |  |
| MAT 201 | Calculus I: or higher | GT-MA1 | (5) |
| Arts \& Hum | nanities |  | 6 |

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

| Arts \& Expression | GT-AH1 |  |
| :--- | :--- | :--- |
| Literature \& Humanities | GT-AH2 |  |
| Ways of Thinking | GT-AH3 |  |
| Foreign Language | GT-AH4 |  |
| History | GT-HI1 |  |

One guaranteed transfer History course
Social \& Behavioral Sciences
6
Two guaranteed transfer Social \& Behavioral courses from two different areas (GT-HI1, GT-SS1, GT-SS2, GT-SS3)

| History | GT-HI1 |
| :--- | :--- |
| Economic or Political Systems | GT-SS1 |
| Geography | GT-SS2 |


| Human Behavior, Culture or Social Frameworks GT-SS3 |
| :--- |
| Natural \& Physical Sciences |
| One 2-lab course sequence in any guaranteed transfer science |
| discipline (GT-SC1) and additional guaranteed |
| transfer lab science course(s). |
| (For example: BIO 111 and BIO 112 are a 2-lab sequence. BIO 111 and |
| BIO 201 are NOT a sequence. A third lab science course is required. Extra |
| credits would apply toward electives.) | credits would apply toward electives.)

```
Electives
NOTE: Not all courses listed below are available at CCD.
    ANT - all courses
    ARA - all courses }111\mathrm{ and higher
    ART - all courses
    ASL - all courses
    AST - all courses
    BIO - all courses 111 and higher
    CHE - all courses }111\mathrm{ and higher
    CHI - all courses }111\mathrm{ and higher
    CIS }11
    COM - all courses
    CSC 160, 161
    DAN, HPL & PED - all courses (up to 4 credits total)
    ECO - all courses
    EDU 221
    ENG - all courses }121\mathrm{ and higher
    ENV 101
    FRE - all courses }111\mathrm{ and higher
    GEO - all courses
    GER - all courses 111 and higher
    GEY - allcourses
    HIS - all courses
    HUM - all courses
    HWE }10
    ITA - all courses 111 and higher
    JOU - all courses
    JPN - all courses }11\mathrm{ and higher
    LIT - all courses
    MAT - all courses }111\mathrm{ and higher
    MUS - all courses
    PHI - all courses
    PHY - all courses }111\mathrm{ and higher
    POS - all courses
    PSY - all courses
    SOC - all courses
    SPA - all courses 111 and higher
    THE - all courses
```

        Total
    60

## AS Degree Subject Area Plans of Study (Recommended)

A Plan of Study consists of at least 4 courses from the same or a related subject area (course prefix). Students should confer with a Program Advisor in the areas of study in order to determine whether or not courses will transfer. The area of study will not appear on a student's transcripts or degree.

| Biology Plan of Study |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| BIO | 111 | General College Biology with Lab: | GT-SC1 | 5 |
| BIO | 112 | General College Biology II with Lab: | GT-SC1 | 5 |
| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |
| MAT | 122 | College Trigonometry: | GT-MA1 | 3 |
| MAT | 201 | Calculus I: | GT-MA1 | 5 |
| PHY | 111 | Physics: Algebra-Based I with Lab: | GT-SC1 | 5 |
| PHY | 112 | Physics: Algebra-Based II with Lab: | GT-SC1 | 5 |

## Chemistry Plan of Study

| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
| :--- | :--- | :--- | :--- | :--- |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |
| MAT | 122 | College Trigonometry: | GT-MA1 | 3 |
| MAT | 201 | Calculus I: | GT-MA1 | 5 |
| MAT | 202 | Calculus II: | GT-MA1 | 5 |
| MAT | 204 | Calculus III/Engineer App: | GT-MA1 | 5 |
| PHY | 211 | Physics: Calculus-Based I with Lab: | GT-SC1 | 5 |
| PHY | 212 | Physics: Calculus-Based II with Lab: | GT-SC1 | 5 |

Computer Science Plan of Study

| CSC | 160 | Computer Science I: (Language)* |  | 4 |
| :--- | :--- | :--- | :--- | :--- |
| CSC | 161 | Computer Science II: (Language, Data Structure)* | 4 |  |
| MAT | 122 | College Trigonometry: | GT-MA1 | 3 |
| MAT 201 | Calculus I: | GT-MA1 | 5 |  |
| MAT 202 | Calculus II: | GT-MA1 | 5 |  |
| PHY | 211 | Physics: Calculus-Based I with Lab: | GT-SC1 | 5 |
| PHY | 212 | Physics: Calculus-Based II with Lab: | GT-SC1 | 5 |
| MAT 266 | Differential Equations w/Linear Algebra * | 4 |  |  |
| ${ }^{*}$ * Check with four-year school for transferability. |  |  |  |  |

Physics Plan of Study

| MAT 122 | College Trigonometry: | GT-MA1 | 3 |  |
| :--- | :--- | :--- | :--- | :--- |
| MAT | 201 | Calculus I: | GT-MA1 | 5 |
| MAT | 202 | Calculus II: | GT-MA1 | 5 |
| MAT | 204 | Calculus III with Engineering Applications: | GT-MA1 | 5 |
| MAT | 266 | Differential Equations with Linear Algebra* | 4 |  |
| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |
| PHY | 211 | Physics: Calculus-Based I with Lab: | GT-SC1 | 5 |
| PHY | 212 | Physics: Calculus-Based II with Lab: | GT-SC1 | 5 |
| * Check with four-year school for transferability. |  |  |  |  |

* Check with four-year school for transferability.

Pre-Dental Plan of Study

| BIO | 111 | General College Biology I with Lab: | GT-SC1 | 5 |
| :--- | :--- | :--- | :--- | :--- |
| BIO | 112 | General College Biology II with Lab: | GT-SC1 | 5 |
| BIO | $204^{*}$ | Microbiology: | GT-SC1 | 4 |
| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |
| MAT | 122 | College Trigonometry: | GT-MA1 | 3 |
| PHY | 111 | Physics: Algebra-Based I with Lab: | GT-SC1 | 5 |
| PHY | 112 | Physics: Algebra-Based II with Lab: | GT-SC1 | 5 |
| *It is important to meet with a Program Advisor to determine the |  |  |  |  |
| transferability of this course. |  |  |  |  |

## Pre-Engineering Plan of Study

See also: Associate Degree of Science - Engineering Designation on page 54

| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
| :--- | :--- | :--- | :--- | :--- |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |
| MAT | 122 | College Trigonometry: | GT-MA1 | 3 |
| MAT | 201 | Calculus I: | GT-MA1 | 5 |
| MAT | 202 | Calculus II: | GT-MA1 | 5 |
| MAT | 204 | Calculus III with Engineering Applications: | GT-MA1 | 5 |
| MAT | 266 | Differential Equations w/Linear Algebra * | 4 |  |
| PHY | 211 | Physics: Calculus-Based I with Lab: | GT-SC1 | 5 |
| PHY | 212 | Physics: Calculus-Based II with Lab: | GT-SC1 | 5 |
| ECO | 201 | Principles of Macroeconomics: | GT-SS1 | 3 |

* Check with four-year school for transferability.

Pre-Medical Plan of Study

| BIO | 111 | General College Biology I with Lab: | GT-SC1 | 5 |
| :--- | :--- | :--- | :--- | :--- |
| BIO | 112 | General College Biology II with Lab: | GT-SC1 | 5 |
| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |
| PHY | 111 | Physics: Algebra-Based I with Lab: | GT-SC1 | 5 |
| PHY | 112 | Physics: Algebra-Based II with Lab: | GT-SC1 | 5 |


| MAT 122 | College Trigonometry: | GT-MA1 | 3 |
| :--- | :--- | :--- | :--- |
| MAT 201 | Calculus I: | GT-MA1 | 5 |


| Pre-Nutrition Plan of Study |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
| BIO | 111 | General College Biology I with Lab: | GT-SC1 | 5 |
| BIO | 201 | Human Anatomy and Physiology I: | GT-SC1 | 4 |
| BIO | 202 | Human Anatomy and Physiology II: | GT-SC1 | 4 |
| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
|  |  | OR | GT-SC1 | (5) |
| CHE | 101 | Introduction to Chemistry I: |  | 3 |
| HWE | 100 | Human Nutrition |  | $1-4$ |
| HPR | 178 | Seminar: Intro to Medical Terminology |  | GT-MA1 |
| MAT | 135 | Introduction to Statistics: | 3 |  |
| Choose either: |  |  |  |  |
| SOC | 101 | Introduction to Sociology I: | GT-SS3 | 3 |
|  |  | AND |  |  |
| ECO | 202 | Principles of Microeconomics: | GT-SS1 | 3 |
|  |  | OR |  |  |
| ANT | 101 | Cultural Anthropology: | GT-SS3 | (3) |
|  |  | AND |  |  |
| ECO | 201 | Principles of Macroeconomics: | GT-SS1 | (3) |


| Pre-Pharmacy Plan of Study |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: |
| BIO | 111 | General College Biology I with Lab: | GT-SC1 | 5 |  |
| BIO | 112 | General College Biology II with Lab: | GT-SC1 | 5 |  |
| BIO | 204 | Microbiology: | GT-SC1 | 4 |  |
| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |  |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |  |
| ECO | 202 | Principles of Microeconomics: | GT-SS1 | 3 |  |
| MAT | 122 | College Trigonometry: | GT-MA1 | 3 |  |
| MAT | 201 | Calculus I: | GT-MA1 | 5 |  |
| PHY | 111 | Physics: Algebra-Based I with Lab: | GT-SC1 | 5 |  |


| Pre-Physical Therapy Plan of Study |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| BIO | 111 | General College Biology I with Lab: | GT-SC1 | 5 |
| BIO | 112 | General College Biology II with Lab: | GT-SC1 | 5 |
| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |
| MAT | 122 | College Trigonometry: | GT-MA1 | 3 |
| MAT | 201 | Calculus I: | GT-MA1 | 5 |
| MAT | 135 | Introduction to Statistics: | GT-MA1 | 3 |
| PHY | 111 | Physics: Algebra-Based I with Lab: | GT-SC1 | 5 |
| PHY | 112 | Physics: Algebra-Based II with Lab: | GT-SC1 | 5 |
| PSY | 235 | Human Growth and Development: | GT-SS3 | 3 |
| PSY | 249 | Abnormal Psychology: | GT-SS3 | 3 |

Pre-Physician's Assistant Plan of Study

| BIO | 111 | General College Biology I with Lab: | GT-SC1 | 5 |
| :--- | :--- | :--- | :--- | :--- |
| BIO | 112 | General College Biology II with Lab: | GT-SC1 | 5 |
| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |
| MAT | 122 | College Trigonometry: | GT-MA1 | 3 |
| MAT | 201 | Calculus I: | GT-MA1 | 5 |
| PHY | 111 | Physics: Algebra-Based I with Lab: | GT-SC1 | 5 |
| PHY | 112 | Physics: Algebra-Based II with Lab: | GT-SC1 | 5 |


| Pre-Veterinary Science Plan of Study     <br> BIO     <br> 111     | General College Biology I with Lab: | GT-SC1 | 5 |  |
| :--- | :--- | :--- | :--- | :--- |
| BIO | 112 | General College Biology II with Lab: | GT-SC1 | 5 |
| CHE | 111 | General College Chemistry I: | GT-SC1 | 5 |
| CHE | 112 | General College Chemistry II: | GT-SC1 | 5 |
| MAT | 122 | College Trigonometry: | GT-MA1 | 3 |
| MAT | 135 | Introduction to Statistics: | GT-MA1 | 3 |
| PHY | 111 | Physics: Algebra-Based I with Lab: | GT-SC1 | 5 |
| PHY | 112 | Physics: Algebra-Based II with Lab: | GT-SC1 | 5 |

## ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

All occupational degrees are approved by the State Board for Community College and Occupational Education and have a minimum of 60 credits. The AAS degree prepares students for entry-level employment in a given occupation or upgrades employable skills. While not intended for transfer to a baccalaureate degree program, all AAS degrees have limited transferability. In each AAS program, some of the courses are articulated with and accepted by at least one specific baccalaureate program. Talk with a Program Advisor for specific details.

## Student Performance Objectives for Career and Technical Education (CTE) AAS degree and certificate programs

- A CCD graduate is a COMPLEX THINKER who has the ability to learn, reason, make decisions and solve problems; has the ability to organize and maintain files; has the ability to allocate resources-time, money, materials, space and staff; understands organizational and social systems, can monitor and correct performance, and design or improve systems.
- A CCD graduate is an EFFECTIVE \& ETHICAL USER OF TECHNOLOGY who demonstrates basic computer skills and has the ability to use computers to process information; can select equipment and apply technology to specific tasks; understands technological systems, can monitor and correct technical performance, and design or improve technical systems.
- A CCD graduate is an EFFECTIVE COMMUNICATOR who demonstrates basic skills in reading, writing, speaking and listening appropriate to the profession.
- A CCD graduate is GLOBALLY AWARE and demonstrates the ability to work on teams and with people, teach others, serve customers, lead, negotiate, value and serve, and work well with and for people from diverse cultures.
- A CCD graduate is PERSONALLY RESPONSIBLE and demonstrates responsibility, self-management, integrity, and personal, professional and social ethics.
- A CCD graduate is a NUMERIC THINKER who demonstrates basic skills in mathematics and the ability to acquire and evaluate data.

Each CTE program area has identified student performance objectives.
These performance objectives are provided to students in course syllabi.

## Career and Technical Tutoring Services (CTTS)

Career and Technical Tutoring Services (CTTS) provides free individualized and small group tutoring in most subjects for students who have declared a Career and Technical Education (CTE) major or concentration, or are in a CTE class and are registered and attending classes at CCD. CTTS is a federally-funded Perkins activity that serves hundreds of CCD students each year; activity staff work with CTE faculty and staff to provide the most appropriate services for each student.

## AAS Degree Program Entry

At the time of application to an AAS program, students must identify which Associate of Applied Science degree program they wish to enter. If interested in Nursing or an Allied Health program, contact an advisor at the Center for Health Sciences at Lowry. Students must apply for entry to all AAS degree programs. Students are encouraged to apply to a program by the time they have completed 12 credits of 100 -level courses. Program application forms are available in Center for Career \& Technical Education, the Center for Health Sciences, and the Center for Language, Arts and Behavioral Sciences.

NOTE: Students who have taken prerequisite courses longer than seven years ago are strongly encouraged to take an assessment test over the prerequisite material to ensure adequate prior knowledge to be successful in future courses. The outcome of the assessment test will help the student determine whether or not he or she needs to re-take the prerequisite course. The assessment test is available in the CCD Testing Center.

For Health Science degrees, because of program accreditation requirements, students must have completed all science courses within the previous seven years before the first day of class in a health program.

## AAS Degree Program Requirements

See your Program Advisor for details on each AAS degree.

## CERTIFICATES

Certificates are designed to provide students with skills needed for en-try-level positions in occupational fields and to enhance skills of those already employed in occupational fields. To accelerate opportunities within an occupational field, students enroll in certificates that build to an AAS. Courses in certificates usually apply to Associate of Applied Sciences (AAS) degrees within the program.

Students requiring developmental education courses must complete the developmental courses before declaring an AAS degree or certificate. Students may enroll in courses within their chosen program, if they meet the prerequisites, before declaring a program.

## Certificate Program Entry Requirements

Students must apply for entry to all certificate programs. Program application forms are available in the Center for Career \& Technical Education, the Center for Language, Arts and Behavioral Science, and the Center for Health Sciences at Lowry.

## ACCOUNTING

## Associate of Applied Science Degree in Accounting Accounting

The Accounting AAS degree program provides a solid foundation of general education and occupational courses for students interested in working in the accounting field. Students are prepared for entry-level jobs such as accounting technician, accounts payable or receivable clerk, payroll clerk, tax examiner, cost accountant and other related jobs in both the public and private sector. Students planning to transfer to a four-year institution as an accounting major should talk with their advisor about completing the Associate of Arts (AA) in Business Administration.

| General Education Requirements |  |  |  |
| :--- | :--- | :--- | ---: |
| CIS | 118 | Introduction to PC Applications |  |
| COM | 115 | Public Speaking | 3 |
| ECO | 201 | Principles of Macroeconomics: | GT-SS1 |
| ENG | 121 | English Composition I: | 3 |
| MAT | 123 | Finite Math | GT-CO1 |
| Subtotal |  |  | 3 |
|  | GT-MA1 | 4 |  |
| Core Requirements | $\mathbf{1 6}$ |  |  |
| ACC | 115 | Payroll Accounting |  |
| ACC | 116 | Computerized Billing (Peachtree) | 3 |
| ACC | 121 | Accounting Principles I | 3 |
| ACC | 122 | Accounting Principles II | 4 |
| ACC | 132 | Tax Help Colorado | 4 |
| ACC | 133 | Tax Help Colorado Practicum | 2 |
| ACC | 135 | Spreadsheet Applications for Accounting | 1 |
| ACC | 245 | Computerized Accounting with Professional Package | 3 |
| BTE | 108 | Ten-Key by Touch | 3 |
| BUS | 217 | Business Communications and Report Writing | 1 |
| CIS | 155 | PC Spreadsheet Concepts: Excel | 3 |
|  | Subtotal |  |  |
|  |  | 3 |  |
| Select at least 15 credits of electives from the following: | $\mathbf{3 0}$ |  |  |
| ACC | 101 | Fundamentals of Accounting |  |
| ACC | 103 | Fundamentals of Accounting Lab | 3 |
| ACC | 131 | Income Tax | 1 |
| ACC | 226 | Cost Accounting | 3 |
| ACC | 287 | Cooperative Education | 3 |


| BUS | 115 | Introduction to Business |  | 3 |
| :--- | :--- | :--- | :--- | ---: |
| ENG | 122 | English Composition II: | GT-CO2 | 3 |
| MAN | 226 | Principles of Management |  |  |
| MAR | 160 | Customer Service | 3 |  |
| PAR | 211 | Legal Research | 3 |  |
|  | Subtotal | $\mathbf{1 5 - 1 6}$ |  |  |
|  | Total | $\mathbf{6 1 - 6 2}$ |  |  |

## Certificate in Accounting

## Bookkeeping/Payroll Technician

This two semester certificate is designed to prepare you as a bookkeeper. A student will obtain the skills needed to perform as an accounts payable, accounts receivable and payroll technician with knowledge of QuickBooks, Peachtree and double-entry bookkeeping.

## Requirements

| ACC | 101 | Fundamentals of Accounting | 3 |
| :--- | :--- | :--- | ---: |
| ACC | 103 | Fundamentals of Accounting Lab | 1 |
| ACC | 115 | Payroll Accounting | 3 |
| ACC | 116 | Computerized Billing (Peachtree) | 3 |
| ACC | 245 | Computerized Accounting with Professional Package | 3 |
| BUS | 115 | Introduction to Business | 3 |
| CIS | 118 | Introduction to PC Applications | 3 |
| CIS | 155 | PC Spreadsheet Concepts: Excel | 3 |
| MAR | 160 | Customer Service | 3 |
|  |  | Total | $\mathbf{2 5}$ |

## Certificate in Accounting

## Computerized Accounting Technician

Computerized Accounting Technician is for students with work experience who want to enhance or increase their accounting knowledge. It prepares students with skills necessary to complete both manual and computerized full-charge bookkeeping activities, including financial statements, general journals, ledgers, accounts payable and receivable, bank reconciliation and payroll. A student will be ready for a job as a full-charge bookkeeper, computerized accounting clerk, computerized payroll clerk or accounting assistant.

## Requirements

ACC 101 Fundamentals of Accounting 3

ACC 103 Fundamentals of Accounting Lab3
ACC 116 Computerized Billing ..... 3
ACC 132 Tax Help Colorado ..... 2
ACC 133 Tax Help Colorado Practicum ..... 1
ACC 245 Computerized Accounting with Professional Package ..... 3
BUS 115 Introduction to Business ..... 3
BUS 217 Business Communications and Report Writing ..... 3
CIS 118 Introduction to PC Applications ..... 3
CIS 145 Complete PC Database ..... 3
OR
MAR 160 Customer Service ..... (3)
CIS 155 PC Spreadsheet Concepts: Excel ..... 3
Total ..... 28

## APPLIED TECHNOLOGY

## Associate of Applied Science Degree in Applied Technology Applied Technology

Students desiring to complete the Associate of Applied Science (AAS) Degree in Applied Technology will complete the technical course work contained in a state-approved career and technical education program certificate* at one of the four area vocational technical schools (AVTS) including Delta-Montrose Area Vocational Technical Center, Emily Griffith Technical College, San Juan Basin Area Vocational Technical School, and

## Pickens Technical College.

The general education and other degree requirements will be completed at Community College of Denver (CCD). The AAS degree in Applied Technology will be conferred by Community College of Denver after the general education and other degree requirements have been completed.

The approved career and technical education certificate program at the AVTS prepares students with technical, applied academic and employability skills. Credit in varying amounts from these certificate programs will be applicable to the CCD Applied Technology AAS degree.

Students may enroll concurrently at an AVTS and Community College of Denver. Students must comply with the regulations and requirements relating to admission and attendance at each institution.
*A state-approved career and technical education program is a program that is approved by the State Board for Community Colleges and Occupational Education (SBCCOE) and is current.

## Minimum requirements:

1. 60 semester credits of course work.
2. CCD will accept up to $42-45$ credit hours of course work from an approved certificate at an AVTS.
3. Cumulative GPA of 2.0 or higher.
4. General education course credits of 15-18 semester credits.
5. Minimum of 15 credit hours of general education requirements must be earned at CCD (see below).
6. Students completing an AVTS certificate of less than 42 credit hours must complete additional credit hours at CCD from the approved General Education list. These credit hours should be selected to complement the certificate from the AVTS and be consistent with the student's future plans. Students transferring a certificate with thirty or fewer hours will complete a minimum of twelve hours in a single Career and Technical Education discipline. The specific courses must be selected in consultation with a Program Advisor and be approved by the Program Advisor.

| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| :--- | :--- | :--- | :---: | :---: |
|  | OR |  |  |  |
| ENG | 131 | Technical Writing | $(3)$ |  |
| COM | 115 | Public Speaking | 3 |  |
|  |  | OR |  | $(3)$ |
| COM | 125 | Interpersonal Communication |  | 3 |
| MAT | 107 | Career Math |  |  |
|  |  | OR | GT-MA1 | (4) |
| MAT | 121 | College Algebra: |  |  |

Select 1 course from the following Physical and Biological Sciences requirements

AST - all GT-SC1 courses
BIO - all GT-SC1 courses
CHE - all GT-SC1 courses
ENV - all GT-SC1 courses
GEY - all GT-SC1 courses
PHY - all GT-SC1 courses
Select 1 course from the following Social and Behavioral Sciences requirements

ANT - all GT-SS3 courses
ECO - all GT-SS1 courses
GEO - all GT-SS2 courses
HIS - all GT-HI1 courses
POS - all GT-SS1 courses
PSY - all GT-SS3 courses
SOC - all GT-SS3 courses
WST - all GT-SS3 courses

## BUSINESS ADMINISTRATION

## Associate of Applied Science Degrees in Business Administration Business Administration

The Associate of Applied Science (AAS) degree prepares students for entry level employment or provides the opportunity to upgrade skills. These programs are not intended to transfer to baccalaureate degree program. Students planning to transfer to a four-year institution as a business major should talk with their advisor about completing the Associate of Arts (AA) in Business.

The Community College of Denver currently offers four Associate of Applied Science degrees in Business Administration and three Certificates in Business Administration.

## Associate of Applied Science Degree in Business Administration International Business

This program is for individuals to explore the possibilities of conducting or improving their business in international markets.

Contact your advisor in the Center for Career and Technical Education.

General Education Requirements

| CIS | 118 | Introduction to PC Applications |  | 3 |
| :--- | ---: | :--- | :--- | ---: |
| COM 115 | Public Speaking |  | 3 |  |
| ECO | 201 | Principles of Macroeconomics: | GT-SS1 | 3 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 123 | Finite Math: | GT-MA1 | 4 |
|  |  | Subtotal |  | $\mathbf{1 6}$ |


| Core Requirements |  |  |  |
| :--- | :--- | :--- | ---: |
| ACC | 121 | Accounting Principles I | 4 |
| ACC | 122 | Accounting Principles II | 4 |
| BUS | 115 | Introduction to Business | 3 |
| BUS | 216 | Legal Environment of Business | 3 |
| BUS | 217 | Business Communications and Report Writing | 3 |
| BUS | 226 | Business Statistics | 3 |
| MAN | 226 | Principles of Management | 3 |
| MAR | 216 | Principles of Marketing | 3 |
|  |  | Subtotal | $\mathbf{2 6}$ |

## Major Requirements

| BUS | 203 | Intro to International Business |  | 3 |
| :--- | :--- | :--- | ---: | ---: |
| GEO | 105 | World Regional Geography: | GT-SS2 | 3 |
| MAR | 240 | International Marketing |  | 3 |
| POS | 105 | Introduction to Political Science: | GT-SS1 | 3 |
| POS | 205 | International Relations: | GT-SS1 | 3 |
| Select any Foreign Language |  | $3-5$ |  |  |
|  | Subtotal | $\mathbf{1 8 - 2 0}$ |  |  |
|  | Total | $\mathbf{6 0 - 6 2}$ |  |  |

## Certificate in Business Administration

## International Business

This program is for individuals and businesses to explore the possibilities of conducting or improving their business in international markets.

NOTE: ENG 121 is a prerequisite for POS 205. We recommend you register for this course in the first semester to ensure you have met the prerequisite requirement.

## Requirements

| ACC | 121 | Accounting Principles I | 4 |
| :--- | :--- | :--- | :--- |
| BUS | 115 | Introduction to Business | 3 |
| BUS | 203 | Intro to International Business | 3 |
| BUS | 216 | Legal Environment of Business | 3 |


| BUS | 217 | Business Communications and Report Writing | 3 |  |
| :--- | :--- | :--- | :--- | ---: |
| CIS | 118 | Introduction to PC Applications |  | 3 |
| ECO | 201 | Principles of Macroeconomics: | GT-SS1 | 3 |
| MAN | 200 | Human Resource Management |  | 3 |
| MAR | 240 | International Marketing |  | 3 |
| POS | 205 | International Relations: | GT-SS1 | 3 |
|  |  |  | Total | $\mathbf{3 1}$ |

## Associate of Applied Science Degree in Business Administration Management

This program is for individuals interested in a career in management.

| Program Admission Requirements |  |  |
| :---: | :---: | :---: |
| Meet minimum assessment scores or prerequisites required for general education courses in the program. |  |  |
| General Education Requirements |  |  |
| CIS 118 | Introduction to PC Applications | 3 |
| COM 115 | Public Speaking | 3 |
| ECO 201 | Principles of Macroeconomics: GT-SS1 | 3 |
| ENG 121 | English Composition I: GT-CO1 | 3 |
| MAT 123 | Finite Mathematics: GT-MA1 | 4 |
|  | Subtotal | 16 |
| Core Requirements |  |  |
| ACC 121 | Accounting Principles I | 4 |
| ACC 122 | Accounting Principles II | 4 |
| BUS 115 | Introduction to Business | 3 |
| BUS 216 | Legal Environment of Business | 3 |
| BUS 217 | Business Communications and Report Writing | 3 |
| BUS 226 | Business Statistics | 3 |
| MAN 200 | Human Resources Management I | 3 |
| MAN 226 | Principles of Management | 3 |
| MAR 216 | Principles of Marketing | 3 |
|  | Subtotal | 29 |
| Major Requirements |  |  |
| BUS 287 | Cooperative Education | 3 |
| MAN 116 | Principles of Supervision | 3 |
| MAN 216 | Small Business Management | 3 |
| MAN 241 | Project Management in Organizations | 3 |
| MAR 160 | Customer Service | 3 |
|  | Subtotal | 15 |
|  | Total | 60 |

## Certificate in Business Administration Entrepreneurship

This certificate is designed for those who are interested starting their own business. The certificate is designed to give the student the basic tools for immediate use, including a business plan. Students will learn the skill set necessary to work for him- or herself and also what it takes to build a successful business.

| Requirements |  |  |
| :--- | :--- | :--- |
| ACC | 101 | Fundamentals of Accounting |
| BUS | 110 | Working for Yourself |
| BUS | 115 | Introduction to Business |
| MAN | 160 | Entrepreneurship |
| MAN | 216 | Small Business Management |
| MAR | 111 | Principles of Sales |
| MAR | 160 | Customer Service |
| MAR | 216 | Principles of Marketing |
|  | Total | 3 |

## Certificate in Business Administration Retail Management

The retail management certificate is designed for individuals with career interests in the retail management field. It is especially appropriate for those seeking the skills and knowledge that may prepare them for career advancement. The 10 required courses are practical and relevant for anyone working in, or supporting, a retail environment.

NOTE: BUS 115, Introduction to Business, is a prerequisite for a number of the courses in this program. We recommend you register for this course in the first semester to ensure you have met the prerequisite requirement.

## Requirements

CIS 118 Intro to PC Applications 3
MAN 128 Human Relations in Organizations 3
MAN 200 Human Resource Management 3
MAN 226 Principles of Management 3
MAR 117 Principles of Retailing 3
MAR 216 Principles of Marketing 3
Subtotal 18
Select one from each of the following:
ACC 101 Fundamentals of Accounting 3
OR
ACC 121 Accounting Principles I (4)
BUS 217 Business Communication and Report Writing 3 OR
ENG 121 English Composition I: GT-CO1 (3)
MAT 107 Career Math 3
OR
MAT 108 Technical Mathematics (4)
OR
MAT 112 Financial Mathematics (3)
OR
MAT 120 Mathematics for Liberal Arts: GT-MA1 (4)
OR
BUS 226 Business Statistics (3)
COM 115 Public Speaking 3
OR
COM 125 Interpersonal Communication (3)
Subtotal 12

## Associate of Applied Science Degree in Business Administration Marketing

This program is for individuals interested in a career in marketing or retail operations.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

## General Education Requirements

| CIS | 118 | Introduction to PC Applications |  | 3 |
| :--- | :--- | :--- | :--- | ---: |
| COM | 115 | Public Speaking |  | 3 |
| ECO | 201 | Principles of Macroeconomics: | GT-SS1 | 3 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 123 | Finite Mathematics: | GT-MA1 | 4 |
|  |  | Subtotal |  | $\mathbf{1 6}$ |

## Core Requirements

ACC 121 Accounting Principles I 4
ACC 122 Accounting Principles II 4
BUS 115 Introduction to Business 3
BUS 216 Legal Environment of Business 3
BUS 217 Business Communications and Report Writing 3
BUS 226 Business Statistics 3
MAN 200 Human Resources Management I 3
MAN 226 Principles of Management ..... 3
MAR 216 Principles of Marketing ..... 3
Subtotal ..... 29
Major Requirements
BUS 287 Cooperative Education 3
MAR 111 Principles of Sales ..... 3
MAR 160 Customer Service ..... 3
MAR 220 Principles of Advertising ..... 3
Subtotal ..... 12
Select a 3 credit elective from prefix PSY, SOC, ECO, ART, MAN, or withpermission of your advisor, another prefix.3
Total ..... 60
Associate of Applied Science Degree in Business Administration Real Estate Plan of Study

The Business Administration - Real Estate AAS degree program is offered jointly by CCD and Emily Griffith Technical College. An official school transcript showing completion of Emily Griffith Technical College's real estate courses is required for program advising. Contact your advisor in the Center for Career and Technical Education.

This program emphasis consists of up to 12 credit hours of real estate specific credits. Students must earn 12 or 15 credits via technical education course work at Emily Griffith Technical College.

| General Education Requirements |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
| CIS | 118 | Introduction to PC Applications |  | 3 |
| COM | 115 | Public Speaking |  | 3 |
| ECO | 201 | Principles of Macroeconomics: | GT-SS1 | 3 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 123 | Finite Mathematics: | GT-MA1 | 4 |
|  |  | Subtotal |  | $\mathbf{1 6}$ |

## Core Requirements

| ACC | 121 | Accounting Principles I | 4 |
| :--- | :--- | :--- | :--- |
| ACC | 122 | Accounting Principles II | 4 |
| BUS | 115 | In |  |

BUS 115 Introduction to Business ..... 3
BUS 216 Legal Environment of Business ..... 3
BUS 217 Business Communications and Report Writing ..... 3
BUS 226 Business Statistics ..... 3
MAN 200 Human Resources Management I ..... 3
MAN 226 Principles of Management ..... 3
MAR 216 Principles of Marketing ..... 3
Subtotal ..... 29
Major Requirements
Real Estate Broker
BUS 287 Cooperative Education ..... 3
*REE 201 Real Estate Brokers I ..... 6
*REE 202 Real Estate Brokers II ..... 6
Subtotal ..... 15
Total ..... 60
*These courses are offered at Emily Griffith Technical College; for more information, call 720-423-4700.

## BUSINESS TECHNOLOGY

See also: Associate Degree of Arts - Business Designation on page 49

## Associate of Applied Science Degree in Business Technology Administrative Assistant AAS Degree

This program prepares students to enter the business world with highlevel business technology skills. The Administrative Assistant degree is an in-depth educational experience with the inclusion of general education
and business courses. A graduate from this program will be prepared to be an assistant in a business; proficient in the use of Microsoft Office Suite (Word, Excel, Power Point, \& Access), understand standard business documentation, assist in decision-making, and develop processes and procedures. Graduates can work in positions such as executive assistant, administrative professional, administrative assistant, office specialist and office professional.

## Program Admission Requirements

1. Meet minimum assessment scores or prerequisites required for general education courses in the program.
2. Or, in place of the above requirements, have completed the Administrative Assistant certificate program.

| General Education Requirements |  |  |  |
| :--- | :--- | :--- | ---: |
| CIS | 118 | Introduction to PC Applications |  |
| COM | 115 | Public Speaking |  |
| ENG | 121 | English Composition I: | GT-CO1 |
| MAT | 107 | Career Math | 3 |
| PSY | 101 | General Psychology I: |  |
|  |  | OR | GT-SS3 |
| POS | 105 | Introduction to Political Science: | 3 |
|  |  | OR |  |
| ECO | 201 | GT-SS1 | Priples of Macroeconomics: |
|  |  | Subtotal | GT-SS1 |

## Core Requirements

BTE 100 Computer Keyboarding I 1
BTE 102 Keyboarding Applications I 2
BTE 225 Administrative Office Management 3
BUS 217 Business Communications and Report Writing 3
CIS 135 Complete PC Word Processing/Word (software package) 3
CIS 155 PC Spreadsheet Concepts: Excel 3
CIS 218 Advanced PC Applications 3
Subtotal 18

## Major Requirements

ACC 101 Fundamentals of Accounting 3
BTE 103 Keyboarding Applications II 3
BTE 108 Ten-Key by Touch 1
BTE 120 Electronic Office Procedures 3
BTE 125 Records Management 3
BTE 287 Internship 3
BUS 115 Introduction to Business 3
CIS 145 Complete PC Database 3
MAR 160 Customer Service 3
Subtotal 25
Select an additional 2 credit hours with Business Technology advisor's approval. 2
Total60

## Certificate in Business Technology

## Administrative Assistant Certificate

The Administrative Assistant program prepares students to use and understand personal computers, including the use of e-mail, the internet, and Microsoft Office Suite (Word, Excel, Power Point, \& Access), write business letters and input data. Graduates are prepared to enter positions as word processors, office assistants, office specialists, administrative assistants and receptionists.

## Program Admission Requirements

Meet minimum assessment scores, be co-enrolled or have completed the prerequisites required for general education courses in the program.

| Requirements |  |  |  |
| :--- | :--- | :--- | :--- |
| BTE | 100 | Computer Keyboarding I | 1 |
| BTE | 102 | Keyboarding Applications I | 2 |
| BTE | 103 | Keyboarding Applications II | 3 |
| BTE | 120 | Electronic Office Procedures | 3 |
| BUS | 115 | Introduction to Business | 3 |
| BUS | 217 | Business Communication and Report Writing | 3 |
| CIS | 118 | Introduction to PC Applications | 3 |
| CIS | 135 | Complete PC Word Processing | 3 |
| CIS | 155 | PC Spreadsheet Concepts: Excel | 3 |
| CIS | 218 | Advanced PC Applications | 3 |
| MAR | 160 | Customer Service | 3 |
|  |  | Total | $\mathbf{3 0}$ |

## Certificate in Business Technology <br> General Office Assistant Certificate

This certificate prepares students for entry-level positions in the business world. This certificate is appropriate for those students that desire a few basic office skills necessary to start a career or are planning to pursue an Associate of Applied Science or higher degree. Students completing this certificate can work in positions such as receptionists, office assistants or clerks.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

## Requirements

| ACC | 101 | Fundamentals of Accounting | 3 |
| :--- | :--- | :--- | ---: |
| BTE | 100 | Computer Keyboarding I | 1 |
| BTE | 102 | Keyboarding Applications I | 2 |
| BUS | 115 | Introduction to Business | 3 |
| CIS | 118 | Introduction to PC Applications | 3 |
| CIS | 135 | Complete PC Word Processing/Word (software package) | 3 |
| MAR | 160 | Customer Service | 3 |
|  |  | Total | $\mathbf{1 8}$ |

## Associate of Applied Science Degree in Business Technology Legal Administrative Assistant AAS Degree

This program prepares students to enter in the legal business community with a high-level of skill in office technology. A graduate from this program will be prepared to perform as an assistant in a legal organization; proficient in the use of the Microsoft Office Suite (Word, Excel, Power Point, \& Access), understand standard business/legal documents, assist in decision-making, and develop processes and procedures. Graduates can work in positions such legal administrative assistants with both private and public sector law offices, legal departments in nonprofit organizations, and court systems. Many students in this program couple the paralegal certificate with this degree to enhance their legal knowledge.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

| General Education Requirements |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| CIS | 118 | Introduction to PC Applications |  | 3 |
| COM | 115 | Public Speaking |  | 3 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 107 | Career Math |  | 3 |
| PSY | 101 | General Psychology I: | GT-SS3 | 3 |
|  |  | OR |  |  |
| POS | 105 | Introduction to Political Science: | GT-SS1 | (3) |
|  |  | OR |  |  |
| ECO | 201 | Principles of Macroeconomics: | GT-SS1 | (3) |
|  |  | Subtotal |  | $\mathbf{1 5}$ |


| Core Requirements |  |  |  |
| :--- | :--- | :--- | ---: |
| BTE | 100 | Computer Keyboarding I | 1 |
| BTE | 102 | Keyboarding Applications I | 2 |
| BTE | 225 | Administrative Office Management | 3 |
| BUS | 217 | Business Communications and Report Writing | 3 |
| CIS | 155 | PC Spreadsheet Concepts: Excel | 3 |
| CIS | 218 | Advanced PC Applications | 3 |
|  | Subtotal | $\mathbf{1 5}$ |  |
|  |  |  |  |
| Major |  |  |  |
| ACC | 101 | Fundamentals of Accounting | 3 |
| BTE | 103 | Keyboarding Applications II | 3 |
| BTE | 117 | Legal Terminology \& Procedures | 3 |
| BTE | 125 | Records Management | 3 |
| BTE | 287 | Internship | 3 |
| BUS | 115 | Introduction to Business | 3 |
| BUS | 216 | Legal Environment of Business | 3 |
| CIS | 135 | Complete PC Word Processing | 3 |
| PAR | 115 | Introduction to Law | 3 |
| PAR | 211 | Legal Research | 3 |
|  |  | Subtotal | $\mathbf{3 0}$ |
|  |  | Total | $\mathbf{6 0}$ |

## Associate of Applied Science Degree in Business Technology Medical Administrative Assistant AAS Degree

This program prepares students to enter in the medical business community with high-level skills in office technology. A graduate from this program will be prepared to be an office assistant to a medical institution, proficient in the use of the Microsoft Office Suite (Word, Excel, Power Point, \& Access), understand standard business/medical documentation, assist in decision-making, develop processes and procedures, and understand medical terminology and medical filing. Graduates can work in positions as medical administrative assistants with private and public medical offices, clinics and hospitals.

The degree offers a more in-depth educational approach to Medical Administrative Assistant with the inclusion of general education and more medical and business courses.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

General Education Requirements

| BUS | 115 | Introduction to Business |  | 3 |
| :--- | :--- | :--- | :--- | :--- |
| CIS | 118 | Introduction to PC Applications |  | 3 |
| COM | 115 | Public Speaking |  | 3 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 107 | Career Math |  | 3 |
| PSY | 101 | General Psychology I: | GT-SS3 | 3 |
|  |  | OR |  |  |
| POS | 105 | Introduction to Political Science: | GT-SS1 | (3) |
|  |  | OR |  |  |
| ECO | 201 | Principles of Macroeconomics: | GT-SS1 | (3) |
|  |  | Subtotal |  | $\mathbf{1 8}$ |

## Core Requirements

BTE 100 Computer Keyboarding I 1
BTE 102 Keyboarding Applications I 2
BTE 225 Administrative Office Management 3
BUS 217 Business Communications and Report Writing 3
CIS 135 Complete PC Word Processing/Word (software package) 3
CIS 155 PC Spreadsheet Concepts: Excel 3
CIS 218 Advanced PC Applications 3

Subtotal 18

| Major Requirements |  |  |
| :--- | :--- | :--- |
| ACC | 101 | Fundamentals of Accounting |
| BTE | 103 | Keyboarding Applications II |
| BTE | 108 | Ten-Key by Touch |
| BTE | 120 | Electronic Office Procedures |
| BTE | 125 | Records Management |
| BTE | 287 | Cooperative Education |
| HPR | 178 | Introduction to Medical Terminology |
| HPR | 208 | Advanced Med Terminology |
| MAR | 160 | Customer Service |
|  |  | 3 |
| Select an additional 3 credit hours with Business Technology advisor |  |  |
| approval. | 3 |  |
| Subtotal |  |  |
|  | Total | 3 |
|  |  | 2 |

## Certificate in Business Technology Medical Administrative Assistant Certificate

Prepares students for jobs such as medical records clerks, medical secretaries, etc.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

| Requirements |  |  |  |
| :--- | :--- | :--- | ---: |
| ACC | 101 | Fundamentals of Accounting | 3 |
| BTE | 100 | Computer Keyboarding I | 1 |
| BTE | 102 | Keyboarding Applications I | 2 |
| BTE | 103 | Keyboarding Applications II | 3 |
| BTE | 108 | Ten-Key by Touch | 1 |
| BTE | 120 | Electronic Office Procedures | 3 |
| BTE | 125 | Records Management | 3 |
| BTE | 225 | Administrative Office Management | 3 |
| CIS | 135 | Complete PC Word Processing/Word (software package) | 3 |
| HPR | 178 | Seminar: Intro to Medical Terminology | 2 |
|  |  | Total | $\mathbf{2 4}$ |

## Associate of Applied Science Degree in Business Technology Office Manager AAS Degree

This program prepares students to enter the business community, ready to become an important part of the management team, using high-level skills in office technology and knowledge of management principles. The Office Manager degree offers an in-depth educational experience in office management, with the inclusion of general education, management and business courses. A graduate from this program will be able to proficiently use the Microsoft Office Suite (Word, Excel, Power Point, \& Access), understand standard business documentation, assist in higher level decision-making, develop processes and procedures, and balance accounts. Graduates can work in positions as office managers or program assistants with business/industry, nonprofit agencies, or in the public sector.

## Program Admission Requirements

1. Meet minimum assessment scores or prerequisites required for general education courses in the program.
2. Or, in place of the above requirements, have completed the Administrative Assistant certificate program.

## General Education Requirements

| CIS | 118 | Introduction to PC Applications |  | 3 |
| :--- | :--- | :--- | :--- | :--- |
| COM | 115 | Public Speaking |  | 3 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 107 | Career Math |  | 3 |


| PSY 101 | General Psychology I: GT-SS3 | 3 |
| :---: | :---: | :---: |
| OR |  |  |
| POS 105 | Introduction to Political Science: GT-SS1 | (3) |
| OR |  |  |
| ECO 201 | Principles of Macroeconomics: GT-SS1 | (3) |
| Subtotal |  | 15 |
| Core Requirements |  |  |
| BTE 100 | Computer Keyboarding I | 1 |
| BTE 102 | Keyboarding Applications I | 2 |
| BTE 225 | Administrative Office Management | 3 |
| BUS 217 | Business Communications and Report Writing | 3 |
| CIS 135 | Complete PC Word Processing/Word | 3 |
| CIS 155 | PC Spreadsheet Concepts: Excel | 3 |
| CIS 218 | Advanced PC Applications | 3 |
| Subtotal |  | 18 |
| Major Requirements |  |  |
| ACC 101 | Fundamentals of Accounting | 3 |
| BTE 103 | Keyboarding Applications II | 3 |
| BTE 125 | Records Management | 3 |
| BUS 115 | Introduction to Business | 3 |
| BUS 216 | Legal Environment of Business | 3 |
| CIS 145 | Complete PC Database | 3 |
| MAN 200 | Human Resources Management I | 3 |
| MAN 226 | Principles of Management | 3 |
| MAR 160 | Customer Service | 3 |
| Subtotal |  | 27 |
|  | Total | 60 |

## Certificate in Business Technology Office Manager Certificate

This program prepares students to enter the business community, ready to become an important part of the management team, using high-level skills in office technology and knowledge of management principles. A graduate from this program will be able to proficiently use the Microsoft Office Suite (Word, Excel, Power Point, \& Access), understand standard business documentation, assist in decision-making, and balance accounts. Graduates can work in positions as office managers or program assistants with business/industry, nonprofit agencies, or in the public sector.

## Requirements

| ACC | 101 | Fundamentals of Accounting | 3 |
| :--- | :--- | :--- | ---: |
| BTE | 100 | Computer Keyboarding I | 1 |
| BTE | 102 | Keyboarding Applications I | 2 |
| BTE | 108 | Ten-Key by Touch | 1 |
| BUS | 115 | Introduction to Business | 3 |
| BUS | 217 | Business Communications and Report Writing | 3 |
| CIS | 118 | Introduction to PC Applications | 3 |
| CIS | 135 | Complete PC Word Processing/Word (software package) | 3 |
| CIS | 155 | PC Spreadsheet Concepts: Excel | 3 |
| MAN | 200 | Human Resources Management I | 3 |
| MAR | 160 | Customer Service | 3 |
|  | Total | $\mathbf{2 8}$ |  |

## Time Limits:

To ensure success in the program, courses transferred into BTE degree/ certificate options or previously taken at CCD should be no more than five years old upon entering the program.

## COMPUTER INFORMATION SYSTEMS

## Associate of Applied Science Degree in Computer Information Systems

## Computer Information Systems

This degree prepares students to obtain entry-level employment in the Computer Information Systems industry. The CIS core prepares students to current industry standards while the business core ensures that students will have the business foundation necessary to compete in the workforce. Potential students should see an IT advisor for more information on transferability.

This degree transfers to Metropolitan State University of Denver's Bachelors of Science Degree in Computer Information Systems.

## Credit Transfer Limitations:

To ensure success in the program, courses transferred into the Computer Information Systems or the Information Technology degree/certificate options or previously taken at CCD should have the following time limits:

Application courses - 5 years
Programming courses - 5 years
Networking Courses - 5 years
Certification courses - 3 years
General education courses - 10 years
Business courses - 10 years
If the transferring student has current industry experience, the time limit for applicable courses may be waived upon approval of the program chair.

| General Education Requirements |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| ENG | 122 | English Composition II: | GT-CO2 | 3 |
| MAT | 123 | Finite Mathematics: | GT-MA1 | 4 |
| POS | 105 | Introduction to Political Science: | GT-SS1 | 3 |
| PSY | 101 | General Psychology I: | GT-SS3 | 3 |
| COM | 115 | Public Speaking |  | 3 |
|  | Subtotal |  | $\mathbf{1 9}$ |  |

## Business Requirements

ACC 121 Principles of Accounting 4
BUS 216 Legal Environment of Business 3
BUS 217 Business Communication and Report Writing 3
ECO 201 Principles of Macroeconomics: GT-SS1 3
ECO 202 Principles of Microeconomics: GT-SS1 3
MAR 216 Principles of Marketing 3
Subtotal 19

Major Requirements
BTE 100 Computer Keyboarding 1
CIS 118 Introduction to PC Applications 3
CIS 267 Management of Information Systems 3
CNG 116 Microcomputer Hardware 3
CNG 120 A+Certification Prep 4
CNG 124 Networking I: Network+ 3
CNG 125 Networking II: Network+ 3
CSC 119 Introduction to Programming 3
Subtotal 23
Total 61

## Certificate in Computer Information Systems Computer Technology Certificate

This one semester certificate is designated to prepare students for employment as computer technicians. Students completing this certificate will be prepared to take the CompTIA A+ certification examinations.
CIS 118 Introduction to PC Applications 3
CNG 116 Microcomputer Hardware 3
CNG 120 A+Certification Preparation 4
CNG 124 Networking I: Network+ 3

CNG 125 Networking II: Network+ 3
Total

## Credit Transfer Limitations:

To ensure success in the program, courses transferred into the Computer Information Systems or the Information Technology degree/certificate options or previously taken at CCD should have the following time limits:

Application courses - 5 years
Programming courses - 5 years
Networking Courses - 5 years
Certification courses - 3 years
General education courses - 10 years
Business courses - 10 years
If the transferring student has current industry experience, the time limit for applicable courses may be waived upon approval of the program chair.

## CRIMINAL JUSTICE

Associate of Applied Science Degree in Criminal Justice
See also: Associate Degree of Arts - Criminal Justice Designation on page 49
This program prepares graduates for the critical work in community corrections. These courses may be accepted, on an individual basis, when pursuing a baccalaureate degree in Criminal Justice in preparation for a career in law enforcement, corrections, and probation and parole environments.

## Criminal Justice

CRJ 110 Intro to Criminal Justice 3
CRJ 125 Law Enforcement Operations 3
CRJ 145 Correctional Process 3
CRJ 205 Principles of Criminal Law 3
CRJ 236 CRJ Research Methods 3
Subtotal 15
General Education Courses
Arts \& Humanities 3
English (ENG 121 or higher) 3
Math (MAT 107 or higher) 3
Science 3
Social \& Behavioral Science 3
Subtotal 15

Electives - select $\mathbf{1 0}$ courses from the following:
CRJ 135 Judicial Function 3
CRJ 146 Community Based Corrections 3
CRJ 201 Emergency Dispatching 5
CRJ 208 Criminal Evidence 3
CRJ 210 Constitutional Law 3
CRJ 215 Constitutional Rights of Inmates 3
CRJ 230 Criminology 3
CRJ 239 Managing Emergency Worker Stress 3
LEA 246 Traffic Investigation (*not offered at CCD) 3
CRJ 250 Computer Crime Investigations 3
CRJ 257 Victimology 3
CRJ 275 Special Topics 3
LEA 246 Traffic Investigation (*not offered at CCD) 3
PSM 104 Introduction to Emergency Management 3
PSM 110 School Violence 3
PSM 204 Terrorism, Intelligence, and Justice 3
PSM 221 Forensic Computer Analysis: Computer Forensics I 3
PSM 222 Forensic Computer Analysis: Computer Forensics II 3
Subtotal 30
Total 60

## Certificate in Criminal Justice <br> Applied Forensics (Digital or Investigative) Certificate

This program prepares students for jobs in the field of forensic science and combines hands-on opportunities with theoretical research to prepare students for entry-level jobs, career enhancement or further education. Students are provided with the latest technology and expertise being used in the field.

| Requirements |  |  |
| :---: | :---: | :---: |
| CRJ 110 | Introduction to Criminal Justice | 3 |
| CRJ 125 | Law Enforcement Operations | 3 |
| CRJ 127 | Crime Scene Investigation | 3 |
| CRJ 205 | Principles of Criminal Law | 3 |
| CRJ 231 | Introduction to Forensic Science and Criminalistics | 3 |
| CRJ 236 | CRJ Research Methods | 3 |
| CRJ 264 | Practical Crime Scene Investigation/ |  |
|  | Medical Legal Death Investigation | 3 |
|  | Subtotal | 21 |


| Electives $\mathbf{-}$ select $\mathbf{3}$ courses from the following: |  |  |  |
| :--- | :--- | ---: | :---: |
| CRJ | 135 | Judicial Function |  |
| CRJ | 145 | Correctional Process |  |
| CRJ | 201 | Dispatching |  |
| CRJ | 208 | Criminal Evidence |  |
| CRJ | 246 | Traffic Investigations |  |
| CRJ | 250 | Computer Crime Investigations |  |
| CRJ | 257 | Victimology |  |
| CRJ | 275 | Special Topics |  |
| PSM | 221 | Forensic Computer Analysis |  |
| PSM | 222 | Forensic Computer Analysis II |  |
|  | Subtotal | 3 |  |
|  |  | Total |  |

## Certificate in Criminal Justice

## Homeland Security Certificate

This program prepares students for positions in policing with an emphasis in Homeland Security. The program features an integration of current practices and technologies used by first responders and the government to protect the public against safety threats.

| Requirements |  |  |
| :--- | :--- | ---: |
| CRJ | 110 | Introduction to Criminal Justice |
| CRJ | 125 | Law Enforcement Operations |
| CRJ | 145 | Correctional Process |
| CRJ | 205 | Principles of Criminal Law |
| CRJ | 236 | CRJ Research Methods |
| Subtotal |  |  |
|  |  | 3 |
| Electives | select $\mathbf{5}$ courses from the following: |  |
| CRJ | 135 | Judicial Function |
| CRJ | 201 | Dispatching |
| CRJ | 208 | Criminal Evidence |
| CRJ | 246 | Traffic Investigations |
| CRJ | 250 | Computer Crime Investigations |
| CRJ | 257 | Victimology |
| CRJ | 275 | Special Topics |
| PSM | 221 | Forensic Computer Analysis |
| PSM | 222 | Forensic Computer Analysis II |
|  |  | Subtotal |

## DENTAL HYGIENE

## Associate of Applied Science Degree in Dental Hygiene

Center for Health Sciences at Lowry

## Dental Hygiene

This program prepares the student to practice as a professional dental hygienist following successful completion of 28 credit hours of preprofessional prerequisites and 65 credit hours of professional study. Successful completion of the prerequisite courses and the full Dental Hygiene curriculum results in an Associate of Applied Science (AAS) degree in Dental Hygiene. After successful completion of the program, students are eligible to take the written national board dental hygiene exam and regional/state clinical board exams. These exams are necessary to become a licensed, registered Dental Hygienist.

Dental hygienists are licensed preventive oral health professionals who provide educational, clinical and therapeutic services in dentistry. Dental hygienists perform procedures such as oral prophylaxis, application of preventive agents, exposure of dental radiographs, patient education and nutritional counseling. Career opportunities for hygienists are available in a variety of settings, including private dental practices, community dental health clinics, public schools, clinical and basic science research laboratories, state and federal health facilities, and management positions.

Dental Hygiene applications are available July 1st and must be submitted and postmarked no later than December 1st of each year to be considered for admission into the class beginning fall of the next academic year. Admission into the program is based upon a 100 point system which consists of the following criteria: required Dental Hygiene prerequisites which must consist of a minimum science GPA of a 3.0 (25 points) and a minimum general GPA of a 2.5 ( 15 points), performance on the Health Occupational Aptitude Exam (20 points), letters of recommendation ( 4 points), hygienist observations (2 points), dental experience ( 4 points - must obtain a dental assisting certificate or be employed more than 6 months at a dental office), interview with the application committee ( 25 points) and proof of Colorado residency ( 5 points). Because of the competitive admissions process, all prerequisite courses must be taken for a letter grade. Once accepted into the program, all grading is conducted on a 7 point grade scale. A student cannot earn lower than a C in any Dental Hygiene course in order to progress to the next level or graduate.

All Dental Hygiene students should enter the program with basic computer skills to include, but not limited to, word processing, creation of power point presentations, email, and use of D2L. Students must have access to a computer as most of the faculty utilize email and D2L for communication.

To find out more information about the Dental Hygiene program and application process, visit www.ccd.edu/dental

## Dental Hygiene Prerequisites:

1. Dental Hygiene Science prerequisites must show a cumulative GPA of 3.0 and be current to within 7 years of the date the program begins. (Grades for like course(s) taken within 7 years, will be averaged.)
2. Dental Hygiene General prerequisites must show a cumulative GPA of 2.5. (Grades for like course(s) taken within 10 years, will be averaged.)
3. Overall cumulative GPA (combination of general and science Dental Hygiene prerequisites) must not be lower than 2.8.
4. Math 090 (Introductory Algebra) or the Math Basic Skills Assessment score of 55 or higher

| BIO | 201 | Human Anatomy and Physiology I: | GT-SC1 | 4 |
| :--- | :--- | :--- | :--- | :--- |
| BIO | 202 | Human Anatomy and Physiology II: | GT-SC1 | 4 |
| BIO | 204 | Microbiology: <br> BIO 208 can be substituted for BIO 204 | GT-SC1 | 4 |
| CHE 109 | General, Organic and Biochemistry <br> CHE 111 and 112 can be substituted for CHE 109 | 4 |  |  |
| COM 115 | Public Speaking <br> COM 125 or 126 can be substituted for COM 115 | 3 |  |  |


| ENG | 121 | English Composition I: ENG 122 can be substituted for ENG 121 | 3 |
| :---: | :---: | :---: | :---: |
| PSY | 101 | General Psychology I: PSY 102, 226, 235, 240 can b substituted for PSY 101 <br> GT-SS3 | 3 |
| SOC | 101 | Introduction to Sociology I: SOC 102, 218, ANT 101 can be substituted for SOC 101 GT-SS3 | 3 |
|  |  | Subtotal | 28 |
| DEH 1 | 100 | Dental Hygiene Basic \& Terminology I | 1 |
| $\begin{aligned} & \text { DEH } 1 \\ & \text { prior } \end{aligned}$ | 100 co to you | urse is taken after acceptance into the program the sum r first semester. |  |
| Requi | ireme |  |  |
| DEH | 101 | Preclinical Dental Hygiene Lecture | 2 |
| DEH | 102 | Preclinical Dental Hygiene Care | 3 |
| DEH | 103 | Dental Anatomy and Histology | 3 |
| DEH | 104 | Dental Radiology | 3 |
| DEH | 111 | Dental and Medical Emergencies | 2 |
| DEH | 116 | Preventive Dentistry and Special Needs Patients | 2 |
| DEH | 122 | Periodontics I | 2 |
| DEH | 123 | Head and Neck Anatomy | 1 |
| DEH | 126 | Dental Materials | 3 |
| DEH | 132 | Applied Pharmacology | 2 |
| DEH | 133 | Local Anesthesia | 2 |
| DEH | 134 | Advanced Clinical Skills | 1 |
| DEH | 138 | Nitrous Oxide/Oxygen Sedation | 1 |
| DEH | 153 | Clinical Theory of Dental Hygiene I | 2 |
| DEH | 170 | Clinical Practice of Dental Hygiene I | 4 |
| DEH | 171 | Clinical Practice of Dental Hygiene I-A | 1 |
| DEH | 202 | Applied Nutrition in Dentistry | 2 |
| DEH | 204 | Community Dental Health I | 2 |
| DEH | 213 | General and Oral Pathology | 3 |
| DEH | 221 | Ethics and Practice Management | 2 |
| DEH | 225 | Community Dental Health II: Field Experience | 1 |
| DEH | 242 | Periodontics II | 2 |
| DEH | 268 | Clinical Theory of Dental Hygiene II | 2 |
| DEH | 270 | Clinical Practice of Dental Hygiene II | 6 |
| DEH | 271 | Clinical Practice of Dental Hygiene III | 7 |
| DEH | 282 | Periodontics III | 1 |
| DEH | 285 | Clinical Theory of Dental Hygiene III | 2 |
|  |  | Total DEH Courses | 65 |
| DEH | 266 | National Board Review (optional) | (2) |

## EARLY CHILDHOOD EDUCATION

## Associate of Applied Science Degree in Early Childhood Education

## Early Childhood Education AAS Degree

This program meets the vocational training needs for personnel involved in the care and education of young children (birth through 8 years) and all Colorado Department of Human Services licensing academic requirements. A grade of $C$ or better is required in all degree classes. Students completing the degree requirements will have met the requirements for both Early Childhood Education Group Leader certificates and an Early Childhood Education Director certificate.

In addition to the academic requirement, the Colorado Department of Human Services requires 24 months ( 3,640 hours) of work experience.

To ensure success in the program, ECE credits older than seven years should not be used towards a currently offered certificate or degree. The program chair can make exceptions for students continually employed in the field (at least $3 / 4$ time) after completing the course.

Course lectures in all Spanish Language Supported Classes will be delivered in English. Course lecture materials will be provided in English and Spanish and will be available in Desire2Learn class forums.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program. See a Program Advisor for more information.

General Education Requirements

| ENG | 121 | English Composition I: | GT-CO1 |
| :--- | :--- | :--- | ---: |
| COM 115 | Public Speaking | 3 |  |
| MAT | 107 | Career Math | 3 |
|  | OR | 3 |  |
| MAT | 155 | Integrated Math I (*not offered at CCD) | (3) |
|  | Subtotal | $\mathbf{9}$ |  |


| Social \& Behavioral Sciences (Select $\mathbf{1}$ course from the following): |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| PSY | 101 | General Psychology I: | GT-SS3 | $\mathbf{3}$ |
|  |  | OR |  |  |
| PSY | 102 | General Psychology II: | GT-SS3 | (3) |
|  |  | OR |  |  |
| SOC | 101 | Introduction to Sociology: | GT-SS3 | (3) |
|  |  | Subtotal |  | $\mathbf{3}$ |

Humanities (Select 1 course from the following)

| MUS | 120 | Music Appreciation: | GT-AH1 | 3 |
| :--- | :--- | :--- | :--- | :--- |
|  | OR |  |  |  |
| ART | 110 | Art Appreciation: | GT-AH1 | (3) |
|  |  | Subtotal |  | $\mathbf{3}$ |

Major Requirements
ECE 101 Introduction to Early Childhood Education 3
ECE 102 Introduction to Early Childhood Lab 3
ECE 103 Guidance Strategies for Young Children 3
ECE 108 The Assessment Process in Early Childhood Education 1
ECE 188 Practicum: Early Childhood Education 3
ECE 205 Nutrition, Health and Safety 3
$\begin{array}{llll}\text { ECE } 209 & \begin{array}{l}\text { Observing and Utilizing Young Children's } \\ \text { Assessment Instruments }\end{array} & 1\end{array}$
ECE 220 Curriculum Development: Methods and Techniques 3
ECE 236 Child Growth/Developmental Lab 1
ECE 238 Child Growth and Development 3
ECE $240 \begin{aligned} & \text { Administration of Early Childhood Care and } \\ & \text { Education Programs }\end{aligned}$
ECE 241 Administration: Human Relations for Early Childhood Education3

ECE 256 Working with Parents, Families and
Community System ..... 3

ECE 288 Practicum: Early Childhood Education

Subtotal 36

| Select 9 credits from the following curriculum electives |  |  |  |
| :--- | :--- | :--- | :--- |
| ECE | 111 | Infant and Toddler Theory and Practice | 3 |
| ECE | 112 | Introduction to Infant/Toddler Lab Techniques | 3 |
| ECE | 226 | Creativity and the Young Child | 3 |
| ECE | 228 | Language and Literacy | 3 |
| ECE | 260 | Exceptional Child | 3 |
|  | Subtotal | $\mathbf{9}$ |  |
|  |  | Total | $\mathbf{6 0}$ |

## Certificate in Early Childhood Education <br> Early Childhood Education Director Certificate

This program prepares graduates for director-qualified positions in early childhood care and education settings. A grade of $C$ or better is required in all certificate and degree programs. Students completing the Director certificate requirements also will have met the requirements for an Early Childhood Education Group Leader-Preschool certificate.

This curriculum meets Colorado Human Services licensing education requirements. In addition to this academic requirement, the Colo-
rado Department of Human Services requires 24 months ( 3,640 hours) of work experience.

To ensure success in the program, ECE credits older than seven years should not be used towards a currently offered certificate or degree. The program chair can make exceptions for students continually employed in the field (at least $3 / 4$ time) after completing the course.

Course lectures in all Spanish Language Supported Classes will be delivered in English. Course lecture materials will be provided in English and Spanish and will be available In Desire2Learn class forums.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites in English, Reading and Math. See a Program Advisor for more information.

## Requirements

ECE 101 Introduction to Early Childhood Education 3
ECE 102 Introduction to Early Childhood Lab Techniques 3
ECE 103 Guidance Strategies for Young Children 3
ECE 111 Infant and Toddler Theory and Practice 3
ECE 205 Nutrition, Health and Safety 3
ECE 220 Curriculum Development: Methods and Techniques 3
ECE 236 Child Growth/Developmental Lab 1
ECE 238 Child Growth and Development 3
$\begin{array}{lll}\text { ECE } & 240 & \text { Administration of Early Childhood Care and } \\ & \text { Education Programs }\end{array}$
$\begin{array}{lll}\text { ECE } 241 & \begin{array}{l}\text { Administration: Human Relations for } \\ \text { Early Childhood Education }\end{array}\end{array}$

| ECE 256 | $\begin{array}{l}\text { Working with Parents, Families and } \\ \text { Community System }\end{array}$ |
| :--- | :--- | :--- |

ECE 260 Exceptional Child 3
Subtotal 34
Select 1 course from the following 3
ECE 226 Creativity and the Young Child (3)
ECE 228 Language and Literacy (3)
Total

## Certificate in Early Childhood Education <br> Group Leader - Preschool Certificate

This program prepares graduates for group leader positions in early childhood care and education settings. A grade of $C$ or better is required in all certificate and degree programs. Students completing this sequence will receive a Colorado Group Leader-Preschool certificate from CCD.

In addition to this academic requirement, the Colorado Department of Human Services requires nine months ( 1,392 hours) of work experience.

All Early Childhood Education Group Leader certificate program credits apply toward the requirements of the AAS degree in Early Childhood Education.

To ensure success in the program, ECE credits older than seven years should not be used towards a currently offered certificate or degree. The program chair can make exceptions for students continually employed in the field (at least $3 / 4$ time) after completing the course.

Course lectures in all Spanish Language Supported Classes will be delivered in English. Course lecture materials will be provided in English and Spanish and will be available In Desire2Learn class forums.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites in English, Reading and Math. See a Program Advisor for more information.

| Group Leader - Preschool |  |  |  |
| :--- | :--- | :--- | :--- |
| ECE | 101 | Introduction to Early Childhood Education | 3 |
| ECE | 102 | Introduction to Early Childhood Lab | 3 |
| ECE | 103 | Guidance Strategies for Young Children | 3 |
| ECE | 220 | Curriculum Development: Methods and Techniques | 3 |


| ECE | 236 | Child Growth/Developmental Lab | 1 |
| :--- | :--- | :--- | ---: |
| ECE | 238 | Child Growth and Development | 3 |
|  |  | Total | $\mathbf{1 6}$ |

## Certificate in Early Childhood Education

## Group Leader - Infant/Toddler Certificate

This program prepares graduates for group leader positions in early childhood care and education settings. A grade of $C$ or better is required in all certificate and degree programs. Students completing this sequence will receive a Colorado Group Leader Infant/Toddler certificate from CCD.

In addition to this academic requirement, the Colorado Department of Human Services requires nine months ( 1,392 hours) of work experience.

All Early Childhood Education Group Leader certificate program credits apply toward the requirements of the AAS degree in Early Childhood Education.

Program Admission Requirements
Meet minimum assessment scores or prerequisites in English, Reading and Math. See a Program Advisor for more information.

## Requirements

ECE 101 Introduction to Early Childhood Education 3
ECE 102 Introduction to Early Childhood Lab 3 OR
ECE 112 Introduction to Infant/Toddler Lab Techniques (3)
ECE 103 Guidance Strategies for Young Children 3
ECE 111 Infant and Toddler Theory and Practice 3
ECE 236 Child Growth/Developmental Lab 1
ECE 238 Child Growth and Development 3
Total 16

## ELECTRONEURODIAGNOSTIC TECHNOLOGY

## Associate of Applied Science Degree in

## Electroneurodiagnostic Technology

Center for Health Sciences at Lowry

## Electroneurodiagnostic Technology

This program prepares the student for an entry-level position as an Electroneurodiagnostic (END) Technologist in a variety of clinical settings, including hospitals. The program's course work includes classroom, laboratory and clinical internship experience. Graduates earn an AAS degree and are eligible to apply for registration by the American Board of Registration of Electroencephalographic and Evoked Potential Technologists Inc. (ABRET).

## Program Admission Requirements

- Prior to enrolling at the college, students must complete an online application for admission. The online application is available at www. ccd.edu, select "enroll online/apply to CCD" and follow the directions.
- Meet minimum assessment scores or prerequisites required for general education courses in the program.
- Complete the General Education requirements. Apply for admission with the Center for Health Sciences at Lowry by submitting a completed Electroneurodiagnostic application packet.
- NOTE: All prerequisite science classes must have been taken within seven academic years and math classes within ten academic years prior to the end of the semester preceding the start of the program.


## General Education Requirements

| BIO | 201 | Human Anatomy and Physiology I: | GT-SC1 | 4 |
| :--- | :--- | :--- | :--- | :--- |
| BIO | 202 | Human Anatomy and Physiology II: | GT-SC1 | 4 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 121 | College Algebra: | GT-MA1 | 4 |
| HPR | 102 | CPR for Professionals |  | .5 |
| CIS | 118 | Introduction to PC Applications |  | 3 |


| SOC | 101 | Introduction to Sociology I: | GT-SS3 | 3 |
| :--- | :--- | :--- | :--- | ---: |
|  | OR | GT-SS3 | (3) |  |
| PSY | 101 | General Psychology I: |  |  |
|  | OR | GT-SS3 | (3) |  |
| PSY | 235 | Human Growth and Development: |  | $\mathbf{2 1 . 5}$ |
|  | Subtotal |  |  |  |

## Requirements

| END | 102 | Electroencephalography (EEG) I | 4 |
| :--- | :--- | :--- | :--- |
| END | 103 | Instrumentation/Principles | 3 |

END 112 Electroencephalography (EEG) II 3
END 115 Patient Care and Safety 3
END 206 Neuroanatomy and Physiology 3
END 209 Polysomnography 5
END 210 Clinical Neurology 3
END 251 Related Modalities 3
END 280 Internship Technology 5
END 281 Clinical I 5
END 282 Clinical Internship II 5
Subtotal 42

Total

## EMERGENCY MEDICAL SERVICES

Certificate in Emergency Medical Services
Center for Health Sciences at Lowry

## Emergency Medical Technician (EMT) Certificate

**This program is not eligible for federal student aid.**
The Emergency Medical Technician (EMT) certificate option in the Emergency Medical Services (EMS) program provides students with the knowledge and skills necessary to obtain employment in ambulance, rescue, or other pre-hospital emergency service settings. Program graduates provide direct patient care, scene management, and patient transportation under the direction of EMS service physician advisors. Courses within the EMT certificate program must be taken in specific succession for students to be eligible to sit for the EMT National Registry certification exams.

Elective courses provide students with EMT certification, knowledge and skills needed for additional certifications or increased job marketability. Open enrollment courses are particularly suited for students with an allied health background.

## Program Application, Admission and Requirements

Prior to registration for this program the following criteria must be met and approved.

- Students must complete an online application for admission. The online application is available at www.ccd.edu, select "enroll online/ apply to CCD" and follow the directions.
- Take and pass the CCD Basic Skills Assessment Test (BSAT) in the Testing Center; Phone 303-556-3810. Score at least the following on the BSAT test:
- English: ENG 090
- Reading: REA 090
- Math: MAT 060

If the SAT/ACT scores are high enough, students may be waived from taking the BSAT. Possession of a bachelor or associates degree from a regionally accredited college waives the BSAT and/or SAT/ACT requirements.

- Pass Background Check
- Documentation of required immunizations.
- Offices and classes are located at Rita Bass Trauma Institute, 190 W. 6th Ave., Denver.
- For more information go to ccd.edu/department/EmergencyMedicalServices

| Major Requirements |  |  |
| :--- | :--- | ---: |
| EMS | 121 | EMT Fundamentals |
| EMS | 122 | EMT Medical Emergencies |
| EMS | 123 | EMT Trauma Emergencies |
| EMS | 124 | EMT Special Considerations |
| EMS | 170 | EMT Basic Clinical |
|  | Total | 4 |

## Electives

EMS 130 *EMT Intravenous Therapy (2)
EMS 126 EMT Refresher (2)

HPR 190 Basic EKG Interpretation

* Student must be Colorado EMT certified and accepted into the EMS
program to enroll in EMS 130.


## ENGINEERING GRAPHICS

The Engineering Graphics Program includes two different design/drafting areas that allow students to pursue their area of interest in greater depth.

PLEASE NOTE: Students who are interested in the Mechanical Drafter program will be asked to enroll in classes Monday through Thursday morning (8 a.m. to 12 noon), also Monday and Wednesday evening ( 6 p.m. to 10 p.m.). Students wishing to enroll in the Architectural Drafter program will be asked to enroll in classes Monday through Thursday afternoon (1 p.m. to 5 p.m.), also Tuesday and Thursday evening ( 6 p.m. to 10 p.m.)

## Associate of Applied Science Degree in Engineering Graphics Architectural Drafter AAS Degree

The Engineering Graphics Architectural Drafter program offered by Community College of Denver allows a student to pursue an Associate of Applied Science Degree that provides an opportunity to learn the skills needed to become an Architectural CAD Drafter throughout Colorado and the rest of the country. This degree program will include the following skills: hand drafting/rendering, 2D CAD drafting and 3D design using SketchUp. In addition, the program includes 3D parametric modeling using the latest version of Revit Architecture. The student will be introduced to Building Information Modeling (BIM), sustainable design issues, and architectural materials and methods used in residential and light commercial architecture.

## Program Admission Requirements

1. Meet minimum assessment scores or prerequisites required for general education courses in the program.
2. Meet with Program Chair or Center Program Advisor. Call to make an appointment.

| General Education Requirements |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
| CIS | 118 | Introduction to PC |  | 3 |
| COM | 115 | Public Speaking |  | 3 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 108 | Technical Math |  | 4 |
| PHY | 105 | Introduction to Physics: | GT-SC1 | 4 |
|  |  | Subtotal |  | $\mathbf{1 7}$ |

## Major Requirements

AEC 101 Basic Architectural Drafting 4
AEC 102 Residential Const. Drawing 4

AEC 104 Architectural Drawing Theory 4
AEC 107 Print Reading Residential/Commercial Architectural 3
AEC 123 Commercial Construction Drawings 4
AEC 125 History of Architecture 3
AEC 225 Architectural Design and Development 4
AEC 280 Internship 6
OR
AEC 289 Capstone

| CAD | 101 | Computer Aided Drafting I | 3 |
| :--- | :--- | :--- | ---: |
| CAD | 102 | Computer Aided Drafting II | 3 |
| CAD | 115 | Sketchup | 3 |
| CAD | 224 | Revit | 3 |
|  | Subtotal | $\mathbf{4 4}$ |  |
|  | Total | $\mathbf{6 1}$ |  |

## Certificate in Engineering Graphics Engineering Graphics Intermediate Architectural Certificate

This certificate builds on the Basic Certificate. It provides currency and skill training for individuals wanting to work in the field of Engineering Graphics Architectural Design. This program includes skills needed to understand 2D \& 3D parametric drafting using the state of the art drafting program. All the credits in this certificate apply to the Associate of Applied Science Degree in Engineering Graphics-Architectural Drafter Degree.

## Program Admission Requirements

1. Meet minimum assessment scores or prerequisites required for general education courses in the program.
2. Meet with Program Chair or Center Program Advisor. Call to make an appointment.

| Requirements |  |  |  |
| :--- | :--- | :--- | ---: |
| AEC | 101 | Basic Arch. Drafting | 4 |
| AEC | 102 | Residential Construction Drawing | 4 |
| AEC | 104 | Arch. Drawing Theory | 4 |
| AEC | 107 | Print Reading | 3 |
| AEC | 225 | Architectural Design and Development | 4 |
| CAD | 101 | Computer Aided Drafting I | 3 |
| CAD | 102 | Computer Aided Drafting II | 3 |
| CAD | 115 | Sketchup | 3 |
| CAD | 224 | Revit | 3 |
| CIS | 118 | Introduction to PC Applications | 3 |
| COM | 115 | Public Speaking | 3 |
| ENG | 121 | English Composition: | 3 |
| MAT | 108 | Technical Mathematics | 4 |
|  |  | Total | $\mathbf{4 4}$ |

## Certificate in Engineering Graphics <br> Engineering Graphics Basic Architectural Certificate

This certificate provides currency and skill training for individuals wanting to work in the field of Engineering Graphics Architectural Drafting. This program includes skills needed to understand 2D drafting using the AutoDesk/AutoCAD drafting program. This certificate is designed for the student with little or no background in Engineering Graphics and AutoCAD programs.

## Program Admission Requirements

1. Meet minimum assessment scores or prerequisites required for general education courses in the program.
2. Meet with Program Chair or Center Program Advisor. Call to make an appointment.

| Requirements |  |  |
| :--- | :--- | ---: |
| AEC | 101 | Basic Arch. Drafting |
| AEC | 104 | Arch. Drawing Theory |
| AEC | 107 | Print Reading | 44

## Associate of Applied Science Degree in Engineering Graphics Mechanical Drafter AAS Degree

The Engineering Graphics Mechanical Drafter program allows a student to pursue an Associate of Applied Science Degree that provides an opportunity to learn the skills needed to become a CAD/Drafter in many of the important industries throughout Colorado and the country. This degree program will include the skills from 2D CAD drafting to 3D parametric modeling. Along the degree path, students will also have opportunities to augment their CAD skills with rapid prototyping, using a state-of-the-art 3D printer, as well as exposure to Computer Aided Machining programs such as Gibbs CAM and MasterCAM. Also in the degree plan, students will be trained in Machine Shop Safety and Practices, mechanical design, and will develop an understanding of mechanical design with an eye towards manufacturability.

## Program Admission Requirements

1. Meet minimum assessment scores or prerequisites required for general education courses in the program.
2. Meet with Program Chair or Center Program Advisor. Call to make an appointment.

## General Education Requirements

| CIS | 118 | Introduction to PC Applications |  | 3 |
| :--- | ---: | :--- | :--- | ---: |
| COM | 115 | Public Speaking |  | 3 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 108 | Technical Math |  | 4 |
| PHY | 105 | Introduction to Physics: | GT-SC1 | 4 |
|  |  | Total | $\mathbf{1 7}$ |  |

## Major Requirements

CAD 101 Computer Aided Drafting I 3
CAD 102 Computer Aided Drafting II 3
CAD 153 Introduction to Pro Engineer/Basics 3
CAD 224 Revit 3
CAD 240 Inventor l--AutoDesk 3
CAD 255 Solidworks/Mechanical 3
EGT 103 Technical Drafting III 3
EGT 106 Introduction to Axonometric Views 3
EGT 107 Introduction to Sections and Auxiliary Views 3
EGT 160 Introduction to Industrial Drafting and Design 3
EGT 250 Advanced Industrial Drafting and Design 6
EGT 289 Capstone: Projects in 3-D for Industrial Drafting \& Design 6
TEC 205 Geometric Dimensioning \& Tolerancing 3 Subtotal 45 Total 62

## Certificate in Engineering Graphics <br> Engineering Graphics Intermediate Mechanical Certificate

This certificate builds on the Basic Certificate. It provides currency and skill training for individuals wanting to work in the field of Engineering Graphics Mechanical Design. This program includes skills needed to understand 3D parametric drafting using the state of the art drafting program. All the credits in this certificate apply to the Associate of Applied Science Degree in Engineering Graphics-Mechanical Drafter Degree.

## Program Admission Requirements

1. Meet minimum assessment scores or prerequisites required for general education courses in the program.
2. Meet with Program Chair or Center Program Advisor. Call to make an appointment.

| Requirements |  |  |
| :--- | :--- | :--- |
| CAD | 101 | Computer Aided Drafting I |
| CAD | 102 | Computer Aided Drafting II |
| CAD | 153 | Introduction to ProEngineer/Basics |
| CAD | 224 | Revit |
| CAD | 240 | Inventor I--AutoDesk |
| CAD | 255 | Solidworks/Mechanical |
| CIS | 118 | Introduction to PC Applications |
| COM | 115 | Public Speaking |
| EGT | 103 | Technical Drafting III |
| EGT | 106 | Introduction to Axonometric Views |
| EGT | 107 | Introduction to Sections and Auxiliary Views |
| EGT | 160 | Introduction to Industrial Drafting |
| EGT | 250 | Advanced Industrial Drafting and Design |
| MAT | 108 | Technical Mathematics |
| TEC | 205 | Geometric Dimensioning |
|  |  | Total |

CAD 101 Computer Aided Drafting I ..... 3
CAD 153 Introduction to ProEngineer/Basics ..... 3
CAD 224 Revit3
Solidworks/Mechanical ..... 3
COM 115 Public Speaking ..... 3EGT 106 Introduction to Axonometric Views3
EGT 107 Introduction to Sections and Auxiliary Views3MAT 108 Technical Mathematics4
Total ..... 49

## Certificate in Engineering Graphics

## Engineering Graphics Basic Mechanical Certificate

This four semester certificate provides currency and skill upgrade training for individuals working in the field, individuals in a related field wishing to obtain AutoCAD skills and/or mechanical/architectural drafting graduates whose skills are dated. This program includes two introductory courses, students with little or no background in AutoCAD should select this program.

## Program Admission Requirements

1. Meet minimum assessment scores or prerequisites required for general education courses in the program.
2. Meet with Program Chair or Center Program Advisor. Call to make an appointment.

| Requirements |  |  |  |
| :--- | :--- | :--- | :--- |
| CAD | 101 | Computer Aided Drafting I | 3 |
| CAD | 102 | Computer Aided Drafting II | 3 |
| CIS | 118 | Introduction to PC Applications | 3 |
| EGT | 103 | Technical Drafting III | 3 |
| EGT | 106 | Introduction to Axonometric Views | 3 |
| EGT | 107 | Introduction to Sections and Auxiliary Views | 3 |
| EGT | 160 | Introduction to Industrial Drafting | 3 |
| MAT | 108 | Technical Mathematics | 4 |
|  |  | Total | $\mathbf{2 5}$ |

## Certificate in Engineering Graphics <br> Inventor Certificate

**This program is not eligible for federal student aid. **
This one-semester certificate provides currency and skill upgrade training for individuals working in the field or individuals in a related field wishing to obtain Inventor skills beyond the entry level. Drafting graduates whose skills are dated and wish to update should use one of these 6 credit hour certificates to gain those skills required in industry. Students with little or no background in AutoCAD should not select this program.

## Program Admission Requirements

Meet with Program Chair or Center Program Advisor. Call to make an appointment..

## Requirements

CAD 240 Inventor--AutoDesk 3
CAD 244 Advanced Inventor ..... 3

## Certificate in Engineering Graphics Revit Certificate

**This program is not eligible for federal student aid.**
This one-semester certificate provides currency and skill upgrade training for individuals working in the field or individuals in a related field wishing to obtain Revit skills beyond the entry level. Drafting graduates whose skills are dated and wish to update should use one of these 6 credit hour certificates to gain those skills required in industry. Students with little or no background in AutoCAD should not select this program.

## Program Admission Requirements

Meet with Program Chair or Center Program Advisor. Call to make an appointment

## Requirements

| CAD | 224 | Revit |
| :--- | :--- | :--- |
| CAD | 227 | Advanced Revit |
|  | Total | 3 |

## Certificate in Engineering Graphics

## Solidworks Certificate

**This program is not eligible for federal student aid..**
This one-semester certificate provides currency and skill upgrade training for individuals working in the field or individuals in a related field wishing to obtain Solidworks skills beyond the entry level. Drafting graduates whose skills are dated and wish to update should use one of these 6 credit hour certificates to gain those skills required in industry. Students with little or no background in AutoCAD should not select this program.

## Program Admission Requirements

Meet with Program Chair or Center Program Advisor. Call to make an appointment.

## Requirements

CAD 255 Solidworks/Mechanical 3
CAD 259 Advanced Solidworks 3
Total 6

## GRAPHIC DESIGN

## Associate of Applied Science Degree in Graphic Design

## Graphic Design AAS Degree

This program provides the skills necessary for entry into the field of graphic design. The graphic design profession involves graphic and advertising design, illustration, and pre-press. The Graphic Design program allows students to develop basic skills common to all three specialties, while developing an emphasis in one.

Successful students may enjoy careers in book/publication design, Web page design, package design, ad/promotional design, and where creative typography and image are needed to move ideas and information.

Students are expected to buy their own tools and materials. The beginning program courses require an original investment of between \$100 and \$300 and students are expected to add needed tools and materials as the program progresses.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

| General Education Requirements |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| ART | 111 | Art History Ancient to Medieval: | GT-AH1 | 3 |
| ART | 112 | Art History Renaissance to Modern: | GT-AH1 | 3 |
| COM | 115 | Public Speaking |  | 3 |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 107 | Career Math |  | 3 |

OR

| MAT 120 | Math for Liberal Arts: (GT-MA1) or other higher GT-MA1 course |  |
| :---: | :---: | :---: |
|  | Subtotal | 15 |
| Major Requirements |  |  |
| ART 121 | Drawing I | 3 |
| ART 131 | 2-D Design | 3 |
| ART 132 | 3-D Design | 3 |
| ART 139 | Digital Photography I (formerly |  |
| ART 143 | Digital Photography) | 3 |
| ART 151 | Painting I (formerly ART 211 Painting I) | 3 |
| MGD 101 | Introduction to Computer Graphics | 3 |
| MGD 105 | Typography and Layout | 3 |
| MGD 111 | Adobe PhotoShop I | 3 |
| MGD 112 | Adobe Illustrator I | 3 |
| MGD 114 | Adobe InDesign | 3 |
| MGD 116 | Typography I | 3 |
| MGD 141 | Web Design I | 3 |
| MGD 203 | Design and Concept | 3 |
| MGD 213 | Electronic Pre-press | 3 |
| MGD 289 | Capstone: Studio Art/Portfolio (Graphic Design) | 3 |
|  | Subtotal | 45 |
|  | Total | 60 |

## Certificate in Graphic Design

## Graphic Design Certificate

Courses in the certificate sequence are applicable to the Graphic Design AAS degree and normally can be completed in two semesters. On completion of major requirements, students may choose one of three emphases, each of which will prepare students for a career in graphic design. MGD 101 is prerequisite to all computer classes.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

## Major requirements

ART 131 2-D Design 3
MGD 101 Introduction to Computer Graphics 3

MGD 105 Typography and Layout 3
MGD 112 Adobe Illustrator I 3
MGD 116 Typography I 3
MGD 203 Design and Concept 3
MGD 213 Electronic Pre-press 3
Subtotal 21
Electives: Select two courses ( 6 credits) from the following:
ART 139 Digital Photography I 3
ART 151 Painting I 3
MGD 111 Adobe Photoshop I 3
MGD 114 Adobe InDesign 3
MGD 141 Web Design I 3
Subtotal 6
Capstone (Required)
MGD 289 Capstone: Studio Art/Portfolio (Graphic Design) 3
Total

## 30

## HUMAN SERVICES

## Associate of Applied Science Degree in Human Services Human Services (AAS)

This degree is a career-oriented program that prepares students for entrylevel employment in communities and institutions that serve clients with a variety of human needs. Students may choose to focus on specific skill areas, such as social service agencies, health care centers, youth services, substance abuse programs, geriatric centers, child abuse programs, com-
munity corrections facilities, crisis centers and domestic violence programs. Students who intend on eventually completing a Bachelor's degree in Human Services should complete the transfer oriented AAS Human Services Transfer Degree option instead. All AAS Human Services coursework must be completed with a grade of $C$ or better. This program is accredited by the Council for Standards in Human Service Education (www.cshse.org).

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

General Education Requirements

| COM 115 | Public Speaking |  | 3 |
| :--- | :--- | :--- | ---: |
| ENG | 121 | English Composition I: | GT-CO1 |
| MAT | 107 | Career Math | 3 |
|  | OR |  | 3 |
| MAT | 120 | Mathematics for Liberal Arts: | GT-MA1 |
|  | OR |  | (4) |
| MAT | 121 | or higher College Algebra: | GT-MA1 |
| PSY | 101 | General Psychology I: | (4) |
|  |  | OR | GT-SS3 |
| PSY | 235 | Human Growth and Development: | GT-SS3 |
|  |  | OR | (3) |
| SOC | 101 | Introduction to Sociology I: | GT-SS3 |


| Select one guaranteed transfer Arts \& Humanities course from the |
| :--- |
| following areas: |
| Arts \& Expression |
| Literature \& Humanities |
| Ways of Thinking |
| Foreign Language |

## Major Requirements

HSE 105 Introduction to Social Welfare 3
HSE 106 Survey of Human Services 3
HSE 107 Interviewing Principles and Practices 3
HSE 108 Introduction to Therapeutic Systems 3
HSE 109 Social Issues in Human Services 3
HSE 188 Human Services Practicum I 4
HSE 205 Human Services for Groups 3
HSE 206 Human Services for Families 3
HSE 207 Community Organization 3
HSE 208 Social Welfare Policy 3
HSE 209 Crisis Theory and Intervention 3
HSE 288 Human Services Practicum II 4
HSE 289 Human Services Practicum III Capstone 7

## Associate of Applied Science Transfer Degree in Human Services Human Services AAS Transfer Degree

The following courses represent the transfer oriented Associate of Applied Science degree for Human Services majors. Upon completion of the AAS Human Services Transfer Degree, students may transfer to Metropolitan State University of Denver's Bachelor of Science program in Human Services. All AAS Human Services Transfer coursework must be completed with a grade of $C$ or better. The program is accredited by the Council for Standards in Human Service Education (www.cshse.org).

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

| General Education Requirements |  |  |  |
| :---: | :---: | :---: | :---: |
| Communications |  |  | 9 |
| ENG 121 | English Composition I: | GT-CO1 | 3 |
| ENG 122 | English Composition II: | GT-CO2 | 3 |
| COM 115 | Public Speaking |  | 3 |
| OR |  |  |  |
| COM 125 | Interpersonal Communications |  | 3 |
| Mathematics |  |  | 3 |
| Select one guaranteed transfer Math course |  | GT-MA1 |  |
| Arts and Humanities |  |  | 6 |
| Select two guaranteed transfer Arts \& Humanities courses from the following areas: |  |  |  |
| Arts \& Expression |  | GT-AH1 |  |
| Literature \& Humanities |  | GT-AH2 |  |
| Ways of Thinking |  | GT-AH3 |  |
| Foreign Language |  | GT-AH4 |  |
| History |  |  | 3 |
| Select one guaranteed transfer History course from the following list: HIS 101, HIS 102, HIS 111, HIS 112, |  | GT-HI1 |  |
| Social and Behavioral Sciences |  |  | 6 |
| Select two guaranteed transfer courses from two different |  |  |  |
| Social and Behavioral Systems areas: |  |  |  |
| Economic \& Political Systems |  | GT-SS1 | 3 |
| OR |  |  |  |
| Geography |  | GT-SS2 | (3) |
| Human Behavior, Culture or Social Frameworks |  | GT-SS3 | 3 |
| Natural and Physical Sciences |  |  | 4 |
| Select one guaranteed transfer course from the |  |  |  |
| Natural and Physical Sciences. |  | GT-SC1 |  |
|  | Total CORE: |  | 31 |
| Major Requirements |  |  |  |
| HSE 106 | Survey of Human Services |  | 3 |
| HSE 107 | Interviewing Principles and Practices |  | 3 |
| HSE 108 | Introduction to Therapeutic Systems |  | 3 |
| HSE 188 | Human Services Practicum I |  | 4 |
| HSE 205 | Human Services for Groups |  | 3 |
| HSE 206 | Human Services for Families |  | 3 |
| HSE 288 | Human Services Practicum II |  | 4 |
| HSE 289 | Human Services Practicum III Capstone |  | 7 |
|  | Subtotal |  | 30 |
| Total |  |  | 61 |

## Certificate in Human Services

## Residential Aide/Case Management Certificate

This program prepares students for entry-level positions as case management aides or residential aides. The certificate program is fully transferable to the AAS Human Services and most courses can also be applied to the AAS Human Services Transfer degree. Please consult with the Human Services Department Chair or the Program Advisor to verify the transferability of courses.

Students must complete all certificate coursework with a grade of C or better.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

## General Education Requirements

Select any two guaranteed transfer courses 6

## Core Requirements

HSE 106 Survey of Human Services 3
HSE 107 Interviewing Principles and Practices 3
HSE 108 Introduction to Therapeutic Systems 3
HSE 188 Human Services Practicum I4
HSE 209 Crisis Theory and Intervention ..... 3
Choose any Human Services course as an elective ..... 3
Subtotal ..... 19
Total ..... 25

## INFORMATION TECHNOLOGY <br> Associate of Applied Science Degree in Information Technology Information Technology

This program prepares students to obtain an entry-level position in the Information Technology industry. This degree offers students a broad educational background in computer information systems. Students can choose to specialize in a specific IT category by using the nine elective credits to focus on a particular area. Students completing this degree will qualify for the CompTIA A+ certification exams and gain experience in networking, computer security and database management. Students will enhance their communication skills and obtain exposure to the business environment.

## Program Admission Requirements

1. Meet minimum assessment scores or prerequisites required for general education courses in the program.
2. Completion of 6 credit hours of college-level work.

## General Education Requirements

| CIS | 118 | Introduction to PC Applications |  | 3 |
| :--- | :--- | :--- | :--- | ---: |
| COM | 115 | Public Speaking |  | 3 |
| ENG | 131 | Technical Writing I | 3 |  |
| MAT | 121 | College Algebra: | GT-MA1 | 4 |
| PSY | 101 | General Psychology I: | GT-SS3 | 3 |
|  |  | Subtotal |  | $\mathbf{1 6}$ |

## Core Requirements

| CIS | 124 | Introduction to Operating Systems | 3 |
| :--- | :--- | :--- | ---: |
| CIS | 240 | Database Design and Development | 3 |
| CIS | 267 | Management of Information Systems | 3 |
| CNG | 116 | Microcomputer Hardware | 3 |
| CNG | 120 | A+ Certification Preparation | 4 |
| CNG | 124 | Networking I: Network+ | 3 |
| CNG | 131 | Network Security Fundamentals | 3 |
| CSC | 119 | Introduction to Programming | 3 |
| Elective | CNG prefix only; requires instructor approval | 3 |  |
|  | Subtotal | $\mathbf{2 8}$ |  |

## Business Requirements

BTE 100 Computer Keyboarding I 1
BUS 115 Introduction to Business 3
BUS 217 Business Communications and Report 3
MAR 160 Customer Service 3
Subtotal 10

## Additional Requirements

Select at least 9 additional credits from the following prefixes:
BTE, CIS, CNG, CWB or CSC 9

Total 63

## Certificate in Information Technology Computer Service and Support Certificate

This program prepares students as entry-level computer service technicians. Students completing this certificate will be prepared for the CompTIA A+ certification examinations and the CompTIA Network+ certification exam. Students will obtain the skills necessary to assemble and repair personal computers and peripherals, install software applications and configure personal computers on the network.

| Requirements |  |  |
| :--- | :--- | ---: |
| $\left.\begin{array}{lll}\text { CIS } & 118 & \text { Introduction to PC Applications } \\ \hline \text { CIS } & 124 & \text { Introduction to Operating Systems } \\ \hline \text { CIS } & 135 & \text { Complete PC Word Processing/Word (software package) } \\ \hline \text { CIS } & 145 & \text { Complete PC Database } \\ \hline \text { CIS } & 155 & \text { PC Spreadsheet Concepts: Excel } \\ \hline \text { CNG } & 116 & \text { Microcomputer Hardware } \\ \hline \text { CNG } & 120 & \text { A+ Certification Preparation } \\ \hline \text { CNG } & 124 & \text { Networking I: Network+ } \\ \hline \text { CNG } & 125 & \text { Networking II: Network+ } \\ \hline \text { CNG } & 211 & \text { Windows XP Configuration } \\ & & \text { Total }\end{array}\right] 3$ |  |  |

## Certificate in Information Technology Network Security Certificate

This program prepares students as entry-level network security specialists. Students will be trained in state of the art security practices that will provide them with the skills necessary to maintain a network and protect the network from internal and external security threats. Students completing this certificate will be prepared for the CompTIA Network+ and the CompTIA Security+ certification examinations.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

| Requirements |  |  |
| :---: | :---: | :---: |
| CIS 118 | Introduction to PC Applications | 3 |
| CNG 116 | Microcomputer Hardware | 3 |
| CNG 124 | Networking I: Network+ | 3 |
| CNG 125 | Networking II: Network+ | 3 |
| CNG 131 | Network Security Fundamentals | 3 |
| CNG 132 | Principles of Information Security | 3 |
| CNG 211 | Windows XP Configuration | 3 |
| Students must select an additional 3 credit CNG or PSM course with advisor approval |  | 3 |
|  | Total | 24 |

## Credit Transfer Limitations:

To ensure success in the program, courses transferred into the Computer Information Systems or the Information Technology degree/certificate options or previously taken at CCD should have the following time limits:

## Application courses -5 years

Programming courses - 5 years
Networking courses - 5 years
Certification courses - 3 years
General education courses - 10 years
Business courses - 10 years
If the transferring student has current industry experience, the time limit for applicable courses may be waived upon approval of the program chair.

## MACHINE TECHNOLOGIES

## Associate of Applied Science Degree in Machine Technologies

 CCD North
## CNC Manufacturing AAS Degree

This program prepares students with the entry level skills necessary to perform tasks of developing 3D programming to run a Computer Numerical Controlled (CNC) machining center.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program. Refer to the Course Descriptions section of this catalog for course prerequisites. Students may take individual courses, if the course prerequisites are met, prior to being accepted into this program.

| Requirements |  |  |  |
| :---: | :---: | :---: | :---: |
| 1st Semester |  |  |  |
| MAC 100 | Machine Shop Safety |  | 1 |
| MAC 101 | Introduction to Machine Shop |  | 3 |
| MAC 102 | Blueprint Reading |  | 3 |
| MAC 110 | Introduction to Engine Lathe |  | 3 |
| MAC 111 | Intermediate Engine Lathe |  | 3 |
| MAT 108 | Technical Mathematics |  | 4 |
|  | Subtotal |  | 17 |
| 2nd Semester |  |  |  |
| CAD 101 | Computer Aided Drafting I |  | 3 |
| CIS 118 | Introduction to PC Applications |  | 3 |
| ENG 121 | English Composition I: | GT-CO1 | 3 |
| OR |  |  |  |
| ENG 131 | Technical Writing I |  | (3) |
| MAC 111 | Intermediate Engine Lathe |  | 3 |
| MAC 121 | Intermediate Milling Machine |  | 3 |
|  | Subtotal |  | 15 |
| 3rd Semester |  |  |  |
| COM 115 | Public Speaking |  | 3 |
| MAC 145 | Production Manufacturing Concepts |  | 3 |
| MAC 201 | Introduction to CNC Turning Operations |  | 3 |
| MAC 205 | Introduction to CNC Milling Operations |  | 3 |
| MAC 240 | CAD/CAM 2-D |  | 3 |
|  | Subtotal |  | 15 |
| 4th Semester |  |  |  |
| MAC 220 | Modern Production Manufacturing |  | 3 |
| MAC 245 | CAD/CAM 3-D |  | 3 |
| MAC 250 | Advanced Inspection Techniques |  | 3 |
| MAC 252 | Practical Metallurgy |  | 3 |
| POS 105 | Introduction to Political Science: | GT-SS1 | 3 |
| OR |  |  |  |
| SOC 101 | Introduction to Sociology I: | GT-SS3 | (3) |
|  | Subtotal |  | 15 |
|  | Total |  | 62 |

## Associate of Applied Science Degree in Machine Technologies CCD North

## CNC Management AAS Degree

This program prepares students with the entry level skills necessary to perform tasks of developing 3D programming to run a Computer Numerical Controlled(CNC) machining center.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program. Refer to the Course Descriptions section of this catalog for course prerequisites. Students may take individual courses, if the course prerequisites are met, prior to being accepted into this program.

## Requirements

## 1st Semester

MAC 100 Machine Shop Safety 1
MAC 101 Introduction to Machine Shop 3
MAC 102 Blueprint Reading 3
MAC 110 Introduction to Engine Lathe 3
MAC 120 Introduction to Milling Machine 3
MAT 108 Technical Mathematics 4
Subtotal 17
2nd Semester
CAD 101 Computer Aided Drafting I 3
CIS 118 Introduction to PC Applications 3

ENG 121 English Composition I: GT-CO1 3
OR
ENG 131 Technical Writing I

| MAC 111 | Intermediate Engine Lathe | 3 |
| :---: | :---: | :---: |
| MAC 121 | Intermediate Milling Machine | 3 |
|  | Subtotal | 15 |
| 3rd Semester |  |  |
| COM 115 | Public Speaking | 3 |
| MAC 145 | Production Manufacturing Concepts | 3 |
| MAC 201 | Introduction to CNC Turning Operations | 3 |
| MAC 205 | Introduction to CNC Milling Operations | 3 |
| MAC 240 | CAD/CAM 2-D | 3 |
|  | Subtotal | 15 |
| 4th Semester |  |  |
| MAC 220 | Modern Production Manufacturing | 3 |
| MAC 250 | Advanced Inspection Techniques | 3 |
| MTE 230 | Design for Manufacturability | 3 |
| MTE 244 | Lean Manufacturing. Practices and Processes | 3 |
| POS 105 | Introduction to Political Science: GT-SS1 | 3 |
|  | OR |  |
| SOC 101 | Introduction to Sociology I: GT-SS3 | (3) |
|  | Subtotal | 15 |
|  | Total | 62 |

## CERTIFICATE IN MACHINE TECHNOLOGIES

## CCD North

## Basic Machining Certificate

This program will instruct a student in the basics of shop safety, drill presses, saws, engine lathes, milling machines, measuring instruments and basic drafting. This certificate is the logical starting point for the more comprehensive certificates and degrees in the Machine Technologies program.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program. Students may take individual courses, if the course prerequisites are met, prior to being accepted into this program.

## Requirements

MAC 100 Machine Shop Safety 1
MAC 101 Introduction to Machine Shop 3
MAC 102 Blueprint Reading 3
MAC 110 Introduction to Engine Lathe 3
MAC 120 Introduction to Milling Machine 3
MAT 108 Technical Math 4
Total

## Certificate in Machine Technologies

CCD North

## Intermediate Machining Certificate

This program prepares a student with the job-entry skills necessary to perform most operations on the vertical mill, horizontal mill, lathe and grind$\mathrm{er} /$ shaper. This certificate is the second logical step for the more comprehensive certificates and degrees in the Machine Technologies program.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program. Students may take individual courses, if the course prerequisites are met, prior to being accepted into this program.

## Requirements

## 1 st Semester

MAC 100 Machine Shop Safety 1

MAC 101 Introduction to Machine Shop 3
MAC 102 Blueprint Reading 3
MAC 110 Introduction to Engine Lathe 3
MAT 108 Technical Math 4
Subtotal14

| 2nd Semester |  |  |
| :--- | :--- | ---: |
| MAC | 111 | Intermediate Engine Lathe |
| MAC | 120 | Introduction to Milling Machine |
| MAC | 121 | Intermediate Milling Machine |
|  | Subtotal | 3 |
|  | Total | $\mathbf{9}$ |
|  |  | $\mathbf{9 3}$ |

## Certificate in Machine Technologies <br> CCD North

## CNC Machine Tool Operator Certificate

Computer Numeric Control (CNC) Machine Tool Operator is a program that prepares students with the job-entry skills necessary to perform most operations on the vertical mill, horizontal mill, lathe, grinder/shaper, CNC mill and CNC lathe. Graduates are prepared to enter positions as CNC Machine Tool Operators. All program credits apply toward the AAS Machining Technologies degree with an emphasis in either CNC Machining Technologies Manufacturing or Management.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program. Students may take individual courses, if the course prerequisites are met, prior to being accepted into this program.

## Requirements

1st Semester
MAC 100 Machine Shop Safety 1

MAC 101 Introduction to Machine Shop 3
MAC 102 Blueprint Reading 3
MAC 110 Introduction to Engine Lathe 3
MAC 111 Introduction to Milling Machine 3
MAT 108 Technical Math 4
Subtotal 17
2nd Semester
CAD 101 Computer Aided Drafting I 3
CIS 118 Introduction to PC Applications 3
MAC 111 Intermediate Engine Lathe 3
MAC 121 Intermediate Milling Machine 3
Subtotal 12
3rd Semester
MAC 145 Production Manufacturing Concepts 3
MAC 201 Introduction to CNC Turning Operations 3
MAC 205 Introduction to CNC Milling Operations 3
MAC 240 CAD/CAM 2-D 3
Subtotal 12
Total 41

| Optional |
| :--- | :--- |
| MAC 178 Machining Workshop |

MAC 245 CAD/CAM 3-D
MAC 246 CAD/CAM 3-D Lab
(3)

## Certificate in Machine Technologies

CCD North

## Industrial Maintenance Technologies Certificate

This certificate is designed to provide a rounded understanding of the entry-level skills in Computer Aided Drafting, Machining and Welding. This set of skills would allow a student to enter the field of manufacturing equipment servicing and repair.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program. Students may take individual courses, if the course prerequisites are met, prior to being accepted into this program.

| Requirements |  |  |
| :--- | :--- | ---: |
| 1st Semester |  |  |
| MAC | 100 | Machine Shop Safety |
| MAC | 101 | Introduction to Machine Shop |
| MAC | 102 | Blueprint Reading |
| MAC | 110 | Introduction to Engine Lathe |
| MAC | 120 | Introduction to Milling Machine |
| MAT | 108 | Technical Math |
| Subtotal |  |  |
| 2nd Semester |  |  |
| CAD | 101 | Computer Aided Drafting I |
| CAD | 102 | Computer Aided Drafting II |
| CAD | 240 | Inventor 1-Autodesk |
| CIS | 118 | Introduction to PC Applications |
|  | Subtotal | 3 |
| 3rd Semester | 3 |  |
| WEL | 101 | Allied Cutting Processes |
| WEL | 102 | Oxyacetylene Joining Processes |
| WEL | 103 | Basic Shielded Metal Arc I |
|  | Subtotal | $\mathbf{1 7}$ |
|  | Total | 3 |

## MULTI-MEDIA JOURNALISM

## Certificate in Multi-Media Journalism

This certificate program teaches basic journalism principles, theories and techniques--students will be qualified for opportunities in the local industry, including entry level positions in a variety of mediums. This program also prepares students to transfer to four-year institutions in Colorado. Within the program, students are introduced to convergent media as well as terms and technology standard in the industry. The program offers a variety of classes to give students an expansive knowledge of different mediums and their importance to the industry. The certificate program is transferable to an AGS or AA degree; please see an advisor to review transferability of courses. Students must complete all certificate course work with a grade of $C$ or better.

## Program Admission Requirements

Meet minimum assessment scores and/or prerequisites for courses in the program.

## Requirements

| JOU | 105 | Introduction to Mass Media | GT-SS3 | 3 |
| :--- | :--- | :--- | :--- | ---: |
| JOU | 106 | Fundamentals of Reporting |  | 3 |
| JOU | 225 | Internet Media | 3 |  |
| JOU | 241 | Feature and Magazine Writing | 3 |  |
|  | Subtotal | $\mathbf{1 2}$ |  |  |

Choose two of the following courses
ART 139 Digital Photography I

> (formerly ART 143)3
BUS 115 Introduction to Business ..... 3
ENG 221 Creative Writing I ..... 3
JOU 102 Introduction to Editing for Media ..... 3
JOU 121 Photojournalism3
JOU 206 Intermediate News Writing and Editing ..... 3
JOU 221 Newspaper Design I ..... 3
JOU 222 Newspaper Design II ..... 3
MAR 111 Principles of Sales ..... 3
MAR 216 Principles of Marketing ..... 3
MAR 220 Principles of Advertising ..... 3
MGD 101 Introduction to Computer Graphics ..... 3
REA 223 Critical Reading and Analysis ..... 3
Subtotal ..... 6
Total ..... 18

## NURSING

## Certificate in Nurse Aide

## Center for Health Sciences at Lowry

## Nurse Aide Certificate

**This program is not eligible for federal student aid.**
The Nurse Aide Certificate Program prepares the student to perform fundamental nursing skills for direct personal care to clients; helping the patient bathe, dress, walk, eat and other daily activities in a long-term facility, hospital or home. The skills are covered in theory, lab and 40 hours of clinical practice.

Clinical practice of a Nurse Aide is regulated by the Colorado Board of Nursing. Colorado has a mandatory Nurse Aide Practice Act, which means that no one may practice as a Certified Nurse Aide without obtaining certification. Students successfully completing the Certificate in Nurse Aide Program at CCD are eligible to take the Colorado Nurse Aide Certification Exam.

## Program Admission Requirements

- Prior to enrolling at the college, students must complete an online application for admission. The online application is available at www. ccd.edu, select "Enroll online/apply to CCD" and follow the directions.
- Complete Nurse Aide Program application.
- Complete Basic Skills Assessment Test Accuplacer with a minimum course placement of:
- Arithmetic - MAT 030
- Sentence skills - ENG 060
- Reading comprehension - REA 060
- Waivers may be obtained from all or part of the Accuplacer testing if a student has ACT or SAT scores or a prior degree. Please contact the Testing Center at the Auraria Campus at 303-556-3810.
- Submit all required documentation to the Center for Health Sciences at Lowry.

Refer to www.ccd.edu/department/nursing for additional documents to be completed, prior to acceptance into the Nurse Aide Program.

## Program Requirements

| NUA | 101 | Nurse Aide Health Care Skills |
| :--- | :--- | :--- |
| NUA | 170 | Nurse Aide Clinical Experience |
|  | Total | 4 |

For additional information call 303-365-8300
**PLEASE NOTE: The Colorado Board of Nursing, which is responsible for overseeing Nurse Aides in Colorado, has varied restrictions that may affect persons with a history of a felony conviction. Community College of Denver assumes no responsibility for the denial of licensure by the State Board of Nursing. Prospective students are responsible for contacting the Board of Nursing at 303-894-2432 with any questions regarding their eligibility for licensure. Incomplete packets will not be considered for admission.

## Certificate in Practical Nursing (PN)

Center for Health Sciences at Lowry
This program is designed for students who seek employment in the field of nursing as a Licensed Practical Nurse. Graduates of this program are eligible to take the National Council Licensure Exam (NCLEX-PN) to become a Licensed Practical Nurse.

The PN Program is approved by the Colorado State Board of Nursing and The Colorado Community College System. The PN Program has earned candidacy with the National League for Nursing Accrediting Commission (NLNAC) 3343 Peachtree Road N.E. Suite 500, Atlanta GA 30326, 404-957-5000.

The courses in the PN Program are progressive in nature, with one course building on the preceding course. A student will not be allowed to continue in the Nursing Program if he/she receives any combination
of two D, F or W grades in a course with an NUR prefix. All pre-requisite science courses must be completed within the last seven years. Please call 303-365-8300 for more information.

The PN Program is a limited-access program. Students are selected for admission on a competitive basis using a point system identified by the PN program. Points are awarded for each area of the minimum criteria required. Students must apply and be admitted to the college and to the nursing program prior to registering for nursing courses. Admission to college does not imply acceptance to the Nursing Program.

Minimum criteria required to apply to the Practical Nurse Program include:

- Prior to enrolling at the college, students must complete an online application for admission. The online application is available at www. ccd.edu, select "Enroll online/apply to CCD" and follow the directions.
- Completion of Basic Skills Assessment (Accuplacer) testing with minimum course placement indicated below, complete indicated coursework or obtain a waiver for the assessment.
Arithmetic - MAT 090
Sentence skills - ENG 090
Reading comprehension - REA 090
- Attendance at a Nursing Information Session
- Completion of the Certificate in Practical Nursing Program application.
- Unofficial transcripts from all post-secondary educational institutions must be submitted to the Nursing Department.
- A current resume including:
- Educational history
- Honors and Awards
- Certifications
- All other work and volunteer experiences over the last five years.
- Complete Assessment Technology Institute, Inc. (ATI) Test of Essential Academic Skills (TEAS) and the Test of Critical Thinking. To be considered for admission into the Certificate in Practical Nursing Program, applicants must obtain the following minimum scores.

| ATI Test of Critical Thinking | 20th percentile program rank |
| :--- | :--- |
| ATI TEAS Test - English | 20th percentile program rank |
| ATI TEAS Test - Reading | 20th percentile program rank |
| ATI TEAS Test - Math | 20th percentile program rank |

## Courses Required Prior to Admission

General Education Courses required prior to admission to the Certificate in Practical Nursing Program must be completed with a minimum grade of $C$. The cumulative grade point average in these courses must be a minimum of 2.5. The courses include the following:

| BIO | 106 | Basic Anatomy and Physiology |  | 4 |
| :--- | :---: | :--- | :---: | :---: |
|  |  | OR |  |  |
| BIO | 201 | Human Anatomy and Physiology I: | GT-SC1 | (4) |
|  |  | AND |  |  |
| BIO | 202 | Human Anatomy and Physiology II: | GT-SC1 | (4) |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| HPR | 108 | Introduction to Nutrition |  | 1 |
|  |  | OR |  |  |
| HWE | 100 | Human Nutrition | $\mathbf{8 - 1 4}$ |  |

## Following Acceptance into Program

Following notification of acceptance into the PN Program, students will be advised regarding additional admission requirements including: background checks, drug screening, American Heart Association CPR certification and immunizations.

| Certificate in Practical Nursing Full Time Course Sequence Semester 1 |  |  |
| :---: | :---: | :---: |
| NUR 101 | Pharmacology Calculations | 1 |
| NUR 103 | Health Assessment for the PN | 1 |
| NUR 105 | PN Arts and Skills | 6.5 |
| NUR 131 | Clinical I: Appl Arts \& Skills | 4.5 |
|  | Subtotal | 13 |
| Semester 2 |  |  |
| NUR 102 | Alterations in Adult Health I | 4 |
| NUR 110 | Pharmacology Practical Nursing | 3 |
| NUR 115 | Basic Concepts of Mental Health | 1 |
| NUR 116 | Basic Concepts of Geri Nursing | 1 |
| NUR 132 | Clinical II Appl Adult Health | 3 |
|  | Subtotal | 12 |
| Semester 3 |  |  |
| NUR 104 | Alterations in Adult Health II | 5 |
| NUR 111 | Socialization into Practical Nursing | 1 |
| NUR 113 | Basic Concepts of OB Nursing | 2 |
| NUR 114 | Basic Concepts of Peds Nursing | 2 |
| NUR 133 | Clinical III Appl Maternal Child | 1.5 |
| NUR 134 | Clinical IV Adv Adult Health | 4.5 |
|  | Subtotal | 16 |
|  | Minimum Total <br> (including 8 credits of general education courses) | 49 |

Certificate in Practical Nursing Part Time Course SequenceNUR 105 Practical Nursing Arts and Skills $\quad 6.5$
NUR 131 Clinical I: Appl Arts \& Skills ..... 4.5
Subtotal ..... 11
Semester 2
NUR 101 Pharmacology Calculations ..... 1
NUR 103 Basic Health Assessment for the Practical Nurse ..... 1
NUR 110 Pharmacology Practical Nursing ..... 3
NUR 115 Basic Concepts of Mental Health and Illness ..... 1
NUR 116 Basic Concepts of Gerontological Nursing ..... 1
Subtotal ..... 7
Semester 3
NUR 113 Basic Concepts of Maternal-Newborn Nursing ..... 2
NUR 114 Basic Concepts of Peds Nursing ..... 2
NUR 133 Clinical III Application of Maternal Child ..... 1.5
Subtotal ..... 5.5
Semester 4
NUR 102 Alterations in Adult Health I ..... 4
NUR 132 Clinical II: Application of alterations in Adult Health I
Subtotal ..... 7
Semester 5

| NUR | 104 | Alterations in Adult Health II | 5 |
| :--- | :---: | :--- | ---: |
| NUR | 111 | Socialization into Practical Nursing | 1 |
| NUR | 134 | Clinical IV: Advanced Adult Health II | 4.5 |
|  |  | Subtotal | $\mathbf{1 0 . 5}$ |
|  |  | Total (including 8 credits of general <br> education courses) | $\mathbf{4 9}$ |

## PARALEGAL

## Associate of Applied Science Degree in Paralegal

## Paralegal AAS Degree

This program prepares students for entry into the paralegal field. Emphasis is placed on practical skills such as interviewing, research and document drafting.

NOTE: Due to accreditation standards and CCD's graduation requirement, beginning Fall 2009 semester, CCD will accept a maximum of 2 CCCOnline PAR courses to apply toward the AAS Paralegal course requirements: PAR


## Associate of Applied Science Transfer Degree in Paralegal Paralegal AAS Transfer Degree

The following courses represent the CCD/UC-Denver paralegal transfer agreement. Students completing these degree requirements will have completed their lower-division general education requirements and will be eligible to transfer to the University of Colorado at Denver as juniors in sociology or political science in the College of Liberal Arts and Sciences or as criminal justice majors in the School of Public Affairs.

NOTE: Due to accreditation standards and CCD's graduation requirement, beginning Fall 2009 semester, CCD will accept a maximum of 2 CCCOnline PAR courses to apply toward the AAS Paralegal course requirements: PAR 115 - Introduction to Law and one PAR Elective course. Please see a Paralegal Faculty Advisor or Program Advisor for advising.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education and paralegal courses in the program.

General Education Requirements

| Communications |  | $\mathbf{9}$ |  |
| :--- | :--- | :--- | :--- |
| ENG | 121 | English Composition I: | GT-CO1 |
| ENG 122 | English Composition II: | GT-CO2 | 3 |
| COM 115 | Public Speaking |  | 3 |
| Mathematics |  | $\mathbf{3}$ |  |
| Select one guaranteed transfer Math course: | GT-MA1 |  |  |
| Arts \& Humanities |  | $\mathbf{6}$ |  |
| Select two guaranteed transfer courses from the following areas: (GT- |  |  |  |
| AH1, GT-AH2, GT-AH3, GT-AH4) |  |  |  |
| Arts \& Expression | GT-AH1 |  |  |
| Literature \& Humanities | GT-AH2 |  |  |
| Ways of Thinking | GT-AH3 |  |  |
| Foreign Language | GT-AH4 |  |  |


| Social \& Behavioral Sciences |
| :--- |
| Select two guaranteed transfer courses from the following areas: (GT- |

Select two guaranteed transfer courses from the following areas: (GT-
SS1, GT-SS2, GT-SS3)

| Economic or Political Systems | GT-SS1 |  |
| :--- | :--- | :--- |
| Geography | GT-SS2 |  |
| Human Behavior, Culture or Social Frameworks | GT-SS3 |  |
| History |  | $\mathbf{3}$ |
| Select one guaranteed transfer History course | GT-HI1 | 3 |
| Natural and Physical Sciences |  | $\mathbf{4}$ |

Select one guaranteed transfer Science course GT-SC1
Major Requirements:
PAR 115 Introduction to Law 3
PAR 201 Civil Litigation 3
PAR 202 Evidence 3
PAR 209 Constitutional Law 3
PAR 211 Legal Research 3
PAR 212 Legal Writing 3
PAR 280 Internship: Paralegal 6
PAR 289 Capstone: Paralegal Synthesis 3
Subtotal 27
Paralegal Electives:
Select 4 courses from the following
CIS 135 Complete Word Processing* 3
PAR 116 Torts 3
PAR 117 Family Law 3
PAR 118 Contracts 3
PAR 125 Property Law 3
PAR 126 Administrative Law 3
PAR 205 Criminal Law 3
PAR 206 Business Organizations 3
PAR 208 Probate and Estates 3
PAR 210 Sexual Orientation and the Law 3
PAR 217 Environmental Law 3
PAR 218 Bankruptcy Law 3

* This course is highly recommended for students lacking word processing proficiency

| Subtotal | $\mathbf{1 2}$ |
| :--- | :--- |
| Total for the AAS Paralegal Transfer Degree | $\mathbf{7 0}$ |

## Certificate in Paralegal

## General Paralegal Certificate

This program prepares individuals with job-entry skills for the general paralegal field. Emphasis is placed on practical skills such as interviewing, researching and document drafting.

PLEASE NOTE: Due to accreditation standards and CCD's graduation requirement, beginning Fall 2009 semester, CCD will accept a maximum of 2 CCCOnline PAR courses to apply toward the AAS Paralegal course requirements: PAR 115 - Introduction to Law and one PAR Elective course. Please see a Paralegal Faculty Advisor or Program Advisor for advising.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program.

## Requirements

| PAR | 115 | Introduction to Law | 3 |
| :--- | :--- | :--- | :--- |
| PAR | 201 | Civil Litigation | 3 |
| PAR | 202 | Evidence | 3 |
| PAR | 209 | Constitutional Law | 3 |
| PAR | 211 | Legal Research | 3 |
| PAR | 212 | Legal Writing | 3 |
| PAR | 280 | Internship: Paralegal | 6 |
| PAR | 289 | Capstone: Paralegal Synthesis | 3 |
|  |  | Subtotal | $\mathbf{2 7}$ |

## Electives

Select 2 from the following:
PAR 116; PAR 117; PAR 118; PAR 125; PAR 126; PAR 205; PAR 206;
PAR 208; PAR 209; PAR 210, PAR 217; PAR 218; CIS 135*
*This course is highly recommended for students lacking word processing proficiency

| Subtotal | 6 |
| :--- | ---: |
| Total | 33 |

## RADIATION THERAPY

Upon successful completion of the Radiation Therapy Program, graduates are eligible to apply for registry by the American Registry of Radiologic Technologists (ARRT) in Radiation Therapy. The programs will prepare the ARRT Registered Radiologic Technologists (RT) and non-ARRT Registered applicants for an entry-level position as a Radiation Therapist in a variety of medical settings including hospitals. The certificate program is an intensive combination of classroom and clinical experience. Certificate is obtained over three semesters. A new class begins in the fall semester of each year.

## Application Information

See program application process at our website www.ccd.edu/department/radiationtherapy.

Qualified applicants will be notified on or before April 30. Upon program acceptance, background check, fingerprinting and drug screening must be completed prior to the start of classes.

## Radiation Therapy Certificate

## Center for Health Sciences at Lowry

Fall

| RTH 221 | Principle-Radiation Therapy I | 3 |
| :--- | :--- | :--- |
| RTH 225 | On |  |

RTH 225 Oncology Pathophysiology 3
RTH 242 Radiation Physics 3
RTH 281 Internship I 8
Spring
RTH 222 Principle-Radiation Therapy II 2
RTH 243 Oncology Principle and Practice I 2
RTH 261 Treatment Planning 3
RTH 282 Internship II 8
Summer
RTH 244 Oncology Principle and Practice II 2
RTE 255 Multiplaner Sectional Imaging 2
RTH 283 Internship III 8
Total 44

## RADIOLOGIC TECHNOLOGY

## Associate of Applied Science Degree in Radiologic Technology

Center for Health Sciences at Lowry
The Radiologic Technology program prepares the student for an en-try-level position as a Radiographer in a variety of medical settings, including hospitals. The program may be completed in five semesters of course work; to include classroom, laboratory and clinical internship experience. Graduates who are disciplined in their study habits will earn an AAS degree in Radiologic Technology. The program is held to high standards of accreditation by the JRCERT, in order to assure that graduates are well-prepared to be successful in their examination with the American Registry of Radiologic Technologists (ARRT).

The program begins in the fall semester of each year. Information and requirements may be obtained from the Program Advisor for Health Sciences at CCD Lowry, 303-365-8300. Information sessions for the program are held on the third Tuesday of the month, (except in March, May, July or December) at 5:00 pm at the Center for Health Sciences at Lowry, in Room \#117. Additional program information is also available at www. ccd.edu/Department/Radiography.

An AAS in Radiologic Technology from CCD is eligible to articulate with the following schools: Regis University: Bachelor of Sciences in Health Care Administration, Colorado Mesa University: Bachelor of Applied Science in Radiologic Technology.

## Steps to a Successful Application

- Prior to enrolling in the program students must complete an online application for Admission. The online college application is available at www.ccd.edu, select "Future Student, Become a Student". NOTE: GPA is a factor in candidate evaluation for program acceptance
- Program Admissions Packets: Accepted annually, from April 15 to May 15 , candidates who have successfully completed their prerequisite course work may submit an application packet to the Radiography Program faculty at the Center for Health Sciences at Lowry.
- Program Admissions packets that are fully completed will be evaluated by Radiography Program faculty and approximately 45 of the top scoring candidates will be invited to participate in an objective, panel-style interview for enrollment in the next matriculating class.
- NOTE: The number of applicants who are invited to participate in the interviews depends upon the number of clinical placement sites which are available. We currently have nearly 30 spots and will interview 150\% of this number to fill these positions.
- The highest scoring candidates from the panel interview and admissions document evaluation will be invited to enter the Radiography program.
- NOTE: A cumulative interview score below $70 \%$ disqualifies the candidate from program entry.
- Candidates who are not selected to enter the program will be provided with advisement, if desired. Students may apply for the program a total of three times.
- NOTE: Beginning in the Fall of 2013, all pre-requisite science classes must have been taken within seven academic years prior to the August start of the program. All math courses must be taken within 10 academic years, prior to the August start of the program.

General Education Prerequisite Requirements

| BIO | 106 | Basic Anatomy and Physiology |  | 4 |
| :--- | ---: | :--- | :--- | :--- | ---: |
|  |  | OR |  |  |
| BIO | 201 | Human Anatomy and Physiology I: | GT-SC1 | (4) |
|  |  | AND |  |  |
| BIO | 202 | Human Anatomy and Physiology II: | GT-SC1 | (4) |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 099 | Intermediate Algebra |  | $3-4$ |
|  |  | OR |  |  |
| MAT | 121 | College Algebra: (or higher) | GT-MA1 | (4) |


| Select 1 course from the following |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
| PSY | 101 | General Psychology I: | GT-SS3 | 3 |
|  |  | OR |  |  |
| PSY | 235 | Human Growth and Development: | GT-SS3 | (3) |
|  |  | OR |  |  |
| SOC | 101 | Introduction to Sociology I: | GT-SS3 | (3) |
| HPR | 178 | Seminar: Introduction to Medical Terminology | $1-2$ |  |
| RTE | 101 | Introduction to Radiography |  | 2 |
| NOTE: Must obtain a grade of B or higher for program enrollment |  |  |  |  |


| Major Requirements |  |  |  |
| :--- | :--- | :--- | ---: |
| RTE | 111 | Radiographic Patient Care | 2 |
| RTE | 121 | Radiologic Procedures I | 3 |
| RTE | 122 | Radiologic Procedures II | 3 |
| RTE | 131 | Radiographic Pathology \& Image Evaluation I | 1.5 |
| RTE | 132 | Radiographic Pathology \& Image Evaluation II | 1.5 |
| RTE | 141 | Radiographic Equipment/Imaging I | 3 |
| RTE | 142 | Radiographic Equipment/Imaging II | 3 |
| RTE | 181 | Radiographic Internship I | 5 |
| RTE | 182 | Radiographic Internship II | 5 |
| RTE | 183 | Radiographic Internship III | 7 |
| RTE | 221 | Advanced Medical Imaging | 3 |
| RTE | 231 | Radiation Biology/Protection | 2 |
| RTE | 281 | Radiographic Internship IV | 8 |
| RTE | 282 | Radiographic Internship V | 8 |
| RTE | 289 | Radiographic Capstone | 3 |
|  |  | Total | $\mathbf{7 4 - 8 0}$ |

## Computed Tomography Certificate

## Center for Health Sciences at Lowry

## Computed Tomography Certificate

The medical imaging modality of Computed Tomography is critical in diagnosis and treatment of trauma, as well as in the evaluation of many pathological processes. The CTTechnologist requires specific knowledge and skills and must be ARRT certified in order to practice in Colorado.

The online Computed Tomography program at Community College of Denver is designed to provide working technologists guided instruction and prepare them to successfully complete the ARRT/CT certification examination.

Program admission requires that applicants possess a current ARRT or NMTCB certification, or be a registry eligible graduate of an accredited program in Radiologic Technology, Nuclear Medicine and/or Radiation Therapy. Also, a minimum of one year experience in direct patient care is required.

The program is designed to be a two semester program. There are two pathways for program completion

- Enroll in RTE 240 and RTE 255 didactic classes, with two semesters of clinical RTE 284 ( 6 credit hours per semester) where CCD would provide clinical experience through the current clinical affiliates for the ARRT. Students would receive regular clinical instruction by CCD faculty.
- Enroll in RTE 240 and RTE 255 didactic classes, with RTE 284 ( 1 credit hour) which would be used for verification of clinical competency and required clinical hours. The student would be responsible for obtaining their own clinical placement and the student would not receive any clinical instruction by CCD faculty.

Regardless of the pathway chosen, students must complete a minimum of 500 documented CT clinical training hours within 24 months prior to graduation.

## Program Admission Requirements

## Steps to a Successful Application

- Prior to enrolling in the program, students must complete an online college application for admission. The online college application is available at www.ccd.edu, select "Future Student, Become a Student".
(NOTE: Admission to the college does not guarantee admission to the CT program. Admission to the CT program is dependent upon clinical site availability and fulfillment of the other program admission requirements).
- Only students who wish to perform a clinical internship in one of CCD's clinical affiliate facilities must apply to the program. Enrollment in RTE 240 and RTE 255 does not require a program application packet; just register following standard college enrollment procedures.
- Students applying for the clinical internship course (RTE 284) must hold current certification in Radiography, Radiation Therapy, or Nuclear Medicine by the ARRT or NMTCB. Applicants must be in good standing or be a registry-eligible graduate of an accredited program in one of the aforementioned primary modalities.
- Students must provide the Computed Tomography Program Coordinator with a complete admissions packet in order to apply for the clinical component of the program. The admissions packet consists of documents that can be downloaded from the website and includes the following.
www.ccd.edu/Department/Radiography
- Computed Tomography Program Application
- Copy of current ARRT or NMTCB certification card
- Proof of one year direct patient care experience (current resume will suffice)
- Current CPR (BLS for Healthcare Providers) card
- Documentation of current Qualitative Respiratory Fit Test
- Background check
- Immunization record documenting the following:
- PPD done within the last 3 months
- MMR-2 immunizations or documentation of immunity
- Hepatitis B series
- Varicella - immunization or documentation of disease
- Tetanus/Diphtheria Toxoid (TD)
- Annual Flu Shot


## Requirements for CT Certificate

RTE 240 Principles of CT Imaging* 3
RTE 255 Multiplanar Sectional Imaging* 2
RTE 284 Advanced Clinical Internship (CT) 1 or 12

* Courses are offered online through Desire2Learn and can be taken separately.
* Enrollment in RTE 240 and RTE 255 is not restricted and does not require application to program.
* Students who wish to have CT clinical internship provided by CCD must submit a completed application packet a minimum of four weeks prior to the first day of the semester (verified by postmark). A minimum of 12 credit hours of RTE 284 are required to graduate.
* Clinical internship enrollment is restricted. Placement is dependent upon clinical site availability, requiring communication and coordination with CT program Coordinator. Placement is on a first-come firstserved basis.


## Certificate in Mammography

Center for Health Sciences at Lowry

## Mammography Certificate

**This program is not eligible for federal student aid.**
The Center for Health Sciences at Community College of Denver is now offering a Certificate in Mammography. The program will assist the qualified student in obtaining the necessary didactic education and mandatory clinical competencies to prepare them to sit for the American Registry of Radiologic Technologists (ARRT) Mammography Certification Examination. The program has been designed to be in compliance with all Colorado State and U.S. Federal education requirements and will prepare students for entry-level clinical practice.

## Program Admission Requirements

Prior to enrolling in the program, students must complete an online college application for admission. The online college application is available at www.ccd.edu, select "Future Student, Become a Student".

NOTE: admission to the college does not guarantee admission to the Mammography program. Admission to the Mammography program is dependent upon clinical site availability and fulfillment of the other program admission requirements.

Program admission requires current ARRT certification in Radiography. Applicants must have a minimum of one year experience in direct patient care.

Students must provide the Mammography Program Coordinator with a complete admissions packet a minimum of four weeks prior to the start of the semester in which they plan to start the program. Dates will be verified by postmark. The admissions packet (check list and form links below) consists of documents that can be downloaded from the website (www.ccd.edu/Department/Radiography) and includes the following:

- Mammography Program Application
- Copy of current ARRT certification card
- Proof of one year direct patient care experience (current resume will suffice)
- Current CPR (BLS for Healthcare Providers) card
- Background Check
- Immunization record documenting the following
- PPD done within the last 3 months
- MMR - 2 immunizations or documentation of immunity
- Hepatitis B series
- Varicella - immunization or documentation of disease
- Tetanus/Diphtheria Toxoid (TD)
- Annual Flu Shot
(Internship placement is on a first-come, first-served basis.)


## Requirements for Mammography Certificate

| RTE | 250 | Mammography | 3 |
| :--- | :--- | :--- | ---: |
| RTE | 291 | Mammography Internship | $3-6$ |
|  |  | Total | $\mathbf{6 - 9}$ |

## VETERINARY TECHNOLOGY

## Associate of Applied Science Degree in Veterinary Technology

Center for Health Sciences at Lowry

## Veterinary Technology AAS Degree

Veterinary Technicians are paraprofessional members of a veterinary team, assisting a Doctor of Veterinary Medicine. Veterinary Technicians perform a variety of tasks, including preparing examination rooms and surgery suites, holding and restraining animals during the exam and/or treatment, collecting specimens, performing routine laboratory procedures, taking diagnostic X-rays, administering medication or treatments, assisting in surgery, performing office skills, maintaining inventory of supplies and assisting with client education.

Career opportunities for Veterinary Technicians are available in a variety of settings, including private veterinary practices, research laboratories, kennels, zoos, and local, state and federal agencies. These experiences can lead to other job opportunities such as sales, animal hospital administration, teaching in a Veterinary Technology program and animal advocacy.

The program is a blend of academic and clinical coursework that requires attention to detail, motivation and the ability to complete tasks within a specified time frame. The students of Community College of Denver Veterinary Technology Program are encouraged to be self-directed in their learning and to establish high standards of professional and personal excellence.

Graduates are eligible to take the Veterinary Technician National Examination and have been able to rapidly find placement in the veterinary health care community. Community College of Denver Veterinary Technology program is one of only two Community College of Colorado
programs located in the Denver Metro area offering an Associate of Applied Science degree in Veterinary Technology.

Community College of Denver offers one of the most respected Veterinary Technology programs in the state.

## Application process

## Steps to a Successful Application

Read and follow each step. Submit completed applications with all accompanying forms, postmarked by June 30 for fall class and October 31 for spring class, to:

CCD Veterinary Technology Program
Attention: Shannon Burkhalter
1070 Alton Way, Bldg. 849 Denver, CO 80230
** If a student has previously applied to our program within the last 2 years and wants to reactivate the application, the student must resubmit the program application. The student must provide written and signed documentation requesting that the following be reactivated: Verification of Ob servation, Transcripts (NOTE: A new official transcript must be submitted if any changes/updates have occurred since the last submission), Reference
Form and the Letter of Agreement. **

- Prior to enrolling in the program students must complete an online application for Admission. The online college application is available at www.ccd.edu, select "Future Student, Become a Student".
- Application for the Veterinary Technology Program can be downloaded at www.ccd.edu/department/VeterinaryTechnology
- Regardless of current or past experiences, applicants are required to observe at least 2 different veterinary technicians, not veterinarians, for a minimum of 4 hours each. Signatures and other pertinent information should be filled out on the Verification of Observation form. Submit this form with the application. Forms can be accessed at the website www.ccd.edu/department/VeterinaryTechnology
- For each college or university attended, applicants must submit an official transcript. Order official transcripts from the previous college/ university and have them sent directly to the Admissions, Registration and Records Office at:


## Community College of Denver

Admissions, Registration and Records
Campus Box 201
PO Box 173363
Denver, CO 80217-3363

- Veterinary Technology general prerequisites must show a cumulative GPA of 2.5.
- Official transcripts are not required for prerequisites taken at CCD.
- Two references are required. Print two copies of the form found on the website and complete the top section only; the reference will complete the bottom portion. Each person writing a reference should place it in a sealed envelope, sign the back of the envelope and return it to you. DO NOT OPEN THE ENVELOPE. Place the sealed envelopes in the application packet. References should be obtained from a current or past employer, college professor, or someone else who can attest to the applicant's professionalism, commitment to learning or similar attributes. Family members do not make good reference sources. The Reference Form can be accessed at the website www.ccd.edu/department/veterinarytechnology.
- The last form to complete is the Letter of Agreement. Read the letter carefully, sign it and submit it with the application packet. The Letter of Agreement can be found at the website www.ccd.edu/department/veterinarytechnology.
- Eligible applicants are selected according to GPA of the required prerequisite courses, Scholastic Level Exam scores, interview presentation, letters of reference, observation and veterinary experience. Because of the competitive admissions process, all prerequisite courses must be taken for a letter grade.
- Enclose a self-addressed, stamped envelope. The envelope will be mailed back informing the applicant of one of the following: that the
application is complete and the specifics of the next step, that the application is incomplete and what is needed; or that the application does not meet the minimum qualifications.

Due to the large volume of applications received, we ask applicants to NOT contact our office inquiring about the application status. Please wait for the arrival of the self-addressed, stamped envelope, which will be mailed by July 30, for fall classes and November 30 for spring classes.

| Courses Required Prior to Admission |  |  |  |  |
| :--- | :--- | :--- | :--- | ---: |
| BIO | 111 | General College Biology I with Lab: | GT-SC1 | 5 |
|  |  |  |  |  |
|  | OR |  |  |  |
|  | a General Biology with Lab |  | (4) |  |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |
| MAT | 107 | Career Math (or higher) |  | 3 |
| General Education |  |  |  |  |
| COM | 115 | Public Speaking |  | 3 |
| PSY | 101 | General Psychology I: | GT-SS3 | 3 |
|  |  | OR |  |  |
| SOC | 101 | Intro to Sociology I: | GT-SS3 | (3) |
|  | Subtotal |  | $\mathbf{1 6 - 1 7}$ |  |


| VET | 106 | Exotic Animal Handling | 2 |
| :--- | :--- | :--- | ---: |
| VET | 108 | Introduction to Laboratory Procedures | 3 |
| VET | 115 | Surgical Nursing | 2 |
| VET | 116 | Humane Treatment and Handling of Animals | 3 |
| VET | 120 | Office Procedures and Relations | 2 |
| VET | 134 | Diagnostic Imaging | 2 |
| VET | 182 | Internship I | 3 |
| VET | 187 | Cooperative Education: Diagnostic Imaging | 1 |
| VET | 205 | Veterinary Anatomy and Physiology I | 4 |
| VET | 206 | Veterinary Anatomy and Physiology II | 4 |
| VET | 224 | Pharmacology for Veterinary Technicians | 3 |
| VET | 225 | Anesthesiology | 3 |
| VET | 227 | Animal Nutrition | 2 |
| VET | 240 | Veterinary Medicine and Surgery | 4 |
| VET | 241 | Clinical Laboratory Procedures | 4 |
| VET | 242 | Veterinary Critical Care | 2 |
| VET | 243 | Veterinary Diagnostics Microbiology | 3 |
| VET | 250 | Clinical Competency Evaluation | 1 |
| VET | 281 | Internship II | 4 |
| VET | 282 | Internship III | 5 |
|  |  | Subtotal | $\mathbf{5 7}$ |
|  |  | Total | $\mathbf{7 3 - 7 4}$ |

## FABRICATION WELDER

## Associate of Applied Science Degree in Fabrication Welder CCD North

## Fabrication Welder AAS Degree

This program prepares the student as an entry-level specialist to work with most operations in oxyacetylene welding, shielded metal arc welding, gas metal arc welding and gas tungsten arc welding on metals that range from heavy plate and pipe to thin-gauge sheet metals. Various steels and aluminum metals are used. Upon successful completion of this program, graduates are prepared to test for certification in SMAW, MIG/TIG. Graduates are prepared to enter positions such as arc welders, industrial welders, production welders, fabrication welders, and MIG or TIG welders.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program Students may take individual courses, if course prerequisites are met, prior to being accepted into this program.

Requirements

## 1st semester

MAT 108 Technical Math 4
WEL 100 Safety for Welders 1
WEL 101 Allied Cutting Processes 4
WEL 102 Oxyacetylene Joining Processes 4
WEL 103 Basic Shielded Metal Arcl 4
Subtotal 17
2nd semester

| CIS | 118 | Introduction to PC Applications |  | 3 |
| :--- | :--- | :--- | :--- | :--- |
| ENG | 121 | English Composition I: | GT-CO1 | 3 |

ENG 131 Technical Writing I (3)
WEL 104 Basic Shielded Metal Arc II 4
WEL 106 Blueprint Reading for Welders and Fitters 4
WEL 110 Advanced Shielded Metal Arc I 4

Subtotal
18

## 3rd semester

SOC 101 Introduction to Sociology I: GT-SS3 3
WEL 111 Advanced Shielded Metal Arc II 4

WEL 124 Introduction to Gas Tungsten Arc Welding 4
WEL 125 Introduction to Gas Metal Arc Welding 4

Subtotal

## 4th semester

| POS | 105 | Introduction to Political Science: | GT-SS13 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| WEL | 202 | Gas Metal Arc Welding II |  | 4 |

WEL 224 Advanced Gas Tungsten Arc Welding 4
WEL 230 Pipe Welding 4
Subtotal 15
Total 65

## Certificate in Fabrication Welder

## CCD North

## Basic Welding Certificate

This program prepares students with entry level knowledge in cutting processes, oxyacetylene joining processes and basic shielded metal arc.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program Students may take individual courses, if course prerequisites are met, prior to being accepted into this program.

## Requirements

MAT 108 Technical Math 4
WEL 100 Safety for Welders 1

WEL 101 Allied Cutting Processes 4
WEL 102 Oxyacetylene Joining Processes 4
WEL 103 Basic Shielded Metal Arc I 4
Total 17

## Certificate in Fabrication Welder <br> CCD North

## Intermediate Welding Certificate

This program prepares students with entry level knowledge in cutting processes, oxyacetylene joining processes and basic shielded metal arc. College level mathematics and an introduction to personal computers are included.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program. Refer to the Course Descriptions section of this catalog for course prerequisites. Students may take individual courses, if course prerequisites are met, prior to being accepted into this program.

| Requirements |  |  |
| :--- | :--- | ---: |
| 1st semester |  |  |
| CIS | 118 | Introduction to PC Applications |
| MAT | 108 | Technical Math |
| WEL | 100 | Safety for Welders |
| WEL | 101 | Allied Cutting Processes |
| Subtotal |  |  |
| 2nd semester |  |  |
| WEL | 102 | Oxyacetylene Joining Processes |
| WEL | 103 | Basic Shielded Metal Arc I |
| WEL | 106 | Blueprint Reading for Welders and Fitters |
|  | Subtotal | 4 |
|  | Total | $\mathbf{1 2}$ |
|  |  | 4 |

## Certificate in Fabrication Welder

CCD North

## Arc Welder Certificate

Arc Welder prepares students with the entry level skills necessary to perform most operations in arc welding. Graduates are prepared to enter positions as arc, plate and construction welders. All Arc Welder certificate program credits apply toward the Fabrication Welder AAS degree program requirements.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program. Refer to the Course Descriptions section of this catalog for course prerequisites. Students may take individual courses, if course prerequisites are met, prior to being accepted into this program.

## Requirements

1st semester
MAT 108 Technical Math 4
WEL 100 Safety for Welders 1
WEL 101 Allied Cutting Processes 4
WEL 103 Basic Shielded Metal Arc I 4
WEL 104 Basic Shielded Metal Arc II 4
Subtotal 17
2nd semester
WEL 106 Blueprint Reading for Welders and Fitters 4
WEL 110 Advanced Shielded Metal Arc I 4
WEL 111 Advanced Shielded Metal Arc II 4
Subtotal 12
Total 29

## Certificate in Fabrication Welder <br> CCD North

## Fabrication Welder Certificate

Fabrication Welder prepares students with the entry level skills necessary to perform most operations in oxyacetylene welding, shielded metal arc welding, gas metal arc welding and gas tungsten arc welding on materials that range from heavy plate to thin-gauge sheet metals. Various steels and aluminum are used. Upon successful completion of this program, graduates are prepared to test for certification in SMAW, MIG/TIG. Graduates are prepared to enter positions as arc welders, plate welders, industrial welders, production welders, fabrication welders, construction welders, and TIG or MIG welders.

## Program Admission Requirements

Meet minimum assessment scores or prerequisites required for general education courses in the program Students may take individual courses, if course prerequisites are met, prior to being accepted into this program.

| Requirements |  |  |
| :--- | :--- | ---: |
| 1st semester |  |  |
| MAT | 108 | Technical Math |
| WEL | 100 | Safety for Welders |
| WEL | 101 | Allied Cutting Processes |
| WEL | 102 | Oxyacetylene Joining Processes |
| WEL | 103 | Basic Shielded Metal Arc I |
| Subtotal |  |  |
| 2nd semester |  |  |
| WEL | 104 | Basic Shielded Metal Arc II |
| WEL | 106 | Blueprint Reading for Welders and Fitters |
| WEL | 110 | Advanced Shielded Metal Arc I |
| WEL | 124 | Introduction to Gas Tungsten Arc Welding |
| WEL | 125 | Introduction to Gas Metal Arc Welding |
|  | Subtotal | 4 |
| 3rd semester | 4 |  |
| WEL | 111 | Advanced Shielded Metal Arc II |
| WEL | 202 | Gas Metal Arc Welding II |
| WEL | 224 | Advanced Gas Tungsten Arc Welding |
| WEL | 230 | Pipe Welding |
|  | Subtotal | 4 |
|  | Total | 4 |

## ASSOCIATE OF GENERAL STUDIES DEGREE

The Community College of Denver offers the Associate of General Studies degree. It requires lower-division core general education courses that transfer to all majors at all state baccalaureate colleges and universities. Only grades of C or better are acceptable for the core general education requirements. Up to four credits of physical education may apply toward this degree.

## Associate of General Studies Degree (AGS)

In addition to the general education core requirements, the degree allows students to self-select 23-26 credits of transfer and/or Career and Technical Education (CTE) courses. The general education core courses fully meet the general education requirements of all Colorado baccalaureate schools. Transferability of career courses is not guaranteed. If students select this option, they should consult with an Program Advisor. A student can complete this program in four semesters, going full time and carrying the required number of hours. A student may choose, because of personal circumstances, to extend the amount of time for completion.

Any CCD career/CTE course from any CCD location may count as an elective for the AGS degree. Advising is available in the Center for Career and Technical Education.

NOTE: Students who have taken prerequisite courses longer than seven years ago are strongly encouraged to take an assessment test over the prerequisite material to ensure adequate prior knowledge to be successful in future courses. The outcome of the assessment test will help the student determine whether or not he or she needs to re-take the prerequisite course. The assessment test is available in the CCD Testing Center.

For Health Science degrees, because of program accreditation requirements, students must have completed all science courses within the previous seven years before the first day of class in a health program.

## Associate of General Studies Degree AGS Liberal Arts Core

Core course requirements may NOT be waived or substituted.

| AGS Degree Program Requirements |  |  |  |
| :--- | :--- | :--- | :--- |
| Written Communication |  | $\mathbf{6}$ |  |
| ENG | 121 | English Composition I: | GT-CO1 |
|  |  | AND | 3 |
| ENG | 122 | English Composition II: | GT-CO2 |



Social \& Behavioral Sciences
6
Six credits of guaranteed transfer Social and Behavioral Sciences courses from two different areas (GT-SS1, GT-SS2, GT-SS3)

| Economic or Political Systems | GT-SS1 |  |
| :--- | :--- | :--- |
| Geography | GT-SS2 |  |
| Human Behavior, Culture or Social Frameworks | GT-SS3 |  |
| History |  | $\mathbf{3}$ |

## History

3

Natural \& Physical Sciences
Select one laboratory-based course from the following:

| Astronomy | GT-SC1 |
| :--- | :--- |
| Biology | GT-SC1 |
| Chemistry | GT-SC1 |
| Environmental Science | GT-SC1 |
| Geology | GT-SC1 |
| Physics | GT-SC1 |
| ${ }^{* S C l} 155$ AND SCI 156 | GT-SC1 |

*NOTE: Both classes must be taken to meet the requirement Electives
23-26 additional credits needed to reach at least 60 . Minimum of 6 credits must be 100 Level GT courses or 200 Level courses.

## Total

60
PLEASE NOTE: Any course whose number begins with " 0 " in any prefix will not meet requirements for the AGS degree. English and mathematics courses numbered before the core general education courses will not meet requirements for the $A G S$.


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NOTE: Students who took prerequisite courses more than seven years ago are strongly encouraged to take an assessment test on the prerequisite material to ensure adequate prior knowledge to be successful in future courses. The outcome of the assessment test will help the student determine whether or not he or she needs to re-take the prerequisite course. The assessment test is available in the CCD Testing Center.

For Health Science degrees, because of program accreditation requirements, students must have completed all science courses within the previous seven years before the first day of class in a health program.

## AAA - ADVANCED ACADEMIC ACHIEVEMENT COURSES

## AAA 090 Academic Achievement Strategies

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

## AAA 101 College 101: The Student Experience

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

## AAA 109 Advanced Academic Achievement

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

## ACC - ACCOUNTING COURSES

## ACC 101 Fundamentals of Accounting

3 credit hours
Presents the basic elements and concepts of accounting, with emphasis on the procedures used for maintaining journals, ledgers, and other related records, and for the completion of end-ofperiod reports for small service and merchandising businesses.

## ACC 103 Fundamentals of Accounting Lab

1 credit hour
Prerequisite: ACC 101 with a grade of C or better
Designed as the practical lab portion of the Fundamentals of Accounting course. Emphasizes the demonstration of recording accounting information discussed in each chapter of ACC 101.

## ACC 115 Payroll Accounting

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

## ACC 116 Computerized Billing (Peachtree)

3 credit hours
Prerequisite: ACC 101, CIS 118 with a grade of C or better Introduces the concepts and operations of a computerized billing system. Topics include searches, queries, entries and posting account charges and payments, corrections and audits of journals, and preparation and printing of reports.

## ACC 121 Accounting Principles I

4 credit hours
Prerequisite: MAT 090 with a grade of C or better or Math assessment score of 61 (EA) or better
Introduces the study of accounting principles for understanding of the theory and logic that underlie procedures and practices. Major topics include the accounting cycle for service and merchandising companies, special journals and subsidiary ledgers, internal control principles and practices, notes and interest, inventory systems and costing, plant assets and intangible asset accounting, and depreciation methods and practices.

## ACC 122 Accounting Principles II

4 credit hours
Prerequisite: ACC 121 with a grade of $C$ or better
Continues the study of accounting principles as they apply to partnerships and corporations. Major topics include stocks and bonds, investments, cash flow statements, financial analysis, budgeting, and cost and managerial accounting.

## ACC 131 Income Tax

3 credit hours
Corequisite: ACC 121 with a grade of C or better
Studies the basic concepts of federal income taxation, including gross income, deductions, accounting periods and methods, and property transactions with emphasis on taxation of individuals and sole proprietorships.

## ACC 132 Tax Help Colorado

2 credit hours
This course prepares the students for preparation of federal and state income tax returns for individuals. Emphasis is placed on form preparation with the use of tax software.

## ACC 133 Tax Help Colorado Practicum

1 credit hour
This course allows students to prepare actual federal and state income tax returns for individuals in a real time environment.

## ACC 135 Spreadsheet Applications for Accounting

3 credit hours
Prerequisite: ACC 121, ACC 122, CIS 155 with a grade of C or better
Introduces spreadsheets as an accounting tool. Using an accounting perspective, the student applies fundamental spreadsheet concepts. The spreadsheet is used as a problem solving and decision making tool.

## ACC 226 Cost Accounting

3 credit hours
Prerequisite: ACC 121, ACC 122 with a grade of C or better
Studies cost accumulation methods and reports. Focuses on the concepts and procedures of job order, process, standard, and direct cost systems, budgeting, planning, and control of costs.

## ACC 245 Computerized Accounting with Professional Package (Quickbooks)

3 credit hours
Prerequisite: ACC 101 and CIS 118 with a grade of C or better or instructor consent
Integrates accounting principles and practices with a computerized accounting package such as Peachtree, Quickbooks, or other professional package. Emphasizes computerized functions of the general ledger and integrated accounts payable, accounts receivable, invoicing and payroll systems.

## ACC 287 Cooperative Education

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

## AEC-ARCHITECTURE/ ENGINEERING/CONSTRUCTION COURSES

## AEC 100 Introduction to Design Theory

3 credit hours
Evaluates design environments both physical and theoretical. Students will be encouraged to consider how social and individual behavior is reflected in and influenced by these designed environments Through exploration of assigned readings and movies the student will critically assess how design influences our perception of the built environment that surrounds us and the design theory behind it.

## AEC 102 Residential Construction Drawing

4 credit hours
Prerequisite: CAD 225 or instructor permission
Covers an investigation of light frame construction techniques and the production of residential construction drawings.

## AEC 104 Architectural Drawing Theory

4 credit hours
Print reading, construction assemblies, terminology, isometric drawings, orthographic projections, and oblique sketching.

## AEC 123 Commercial Construction Drawings

4 credit hours
Prerequisite: AEC 102 with a grade of C or better or instructor consent
Examines the drawing of architectural plans, elevations, sections, details, and schedules. Students produce a portfolio of construction drawings of a multistory skeleton structure.

## AEC 125 History of Architecture

3 credit hours
This course will cover major periods of architectural development. Social and cultural values influencing architecture will be highlighted as well as the interaction of art, engineering and architecture as forms of expression.

## AEC 221 Building Electrical and Mechanical Systems

3 credit hours
Acquaints the student with electrical and mechanical equipment and systems in buildings. Lectures cover the basic principles of electrical distribution, artificial lighting, fire protection, plumbing systems and heating, ventilating, and air conditioning (HVAC) systems.

## AEC 218 Sustainable Building Systems

3 credit hours
Prerequisites: ENG 090 with a grade of C or better, or English assessment score of 95 or better; REA 090 with a grade of C or better, or Reading assessment score of 80 or better; and MAT
090 with a grade of Cor better, or Math assessment score of 61 or better; or equivalent ACT/SAT scores
Investigates the technologies and strategies related to sustainable (green) materials and systems for buildings. Topics include: energy and environmental consciousness/regulations; the high performance building envelope; alternative construction techniques (adobe, cob, rammed earth, straw bale); microclimate/site factors; sustainable/green materials; and passive solar; active thermal solar, photovoltaic energy, wind energy conversion, on-site water use/reuse and waste disposal systems.

## AEC 225 Architectural Design \& Development

4 credit hours
Prerequisite: AEC 100 \& AEC 104 with a grade of C or better or instructor consent
Covers conceptual design, site analysis, and architectural drafting techniques.

## AEC 236 International Building Codes

3 credit hours
Prerequisites: ENG 090 with a grade of C or better, or English assessment score of 95 or better; REA 090 with a grade of C or better, or Reading assessment score of 80 or better; and MAT 090 with a grade of C or better, or Math assessment score of 61 or better; or equivalent ACT/SAT scores
A study is made of the restrictions, standards, and requirements that in the interest of public safety and welfare have been established by law to govern the construction of buildings and their materials. Specifications are developed to describe building materials to be furnished and how they are to be installed.

## AEC 280 Internship

6 credit hours
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.

## AEC 289 Capstone

6 credit hours
Prerequisite: AEC 104 \& AEC 225 with a grade of C or better Applies knowledge of building construction techniques and architectural drawing conventions in developing plans, elevations, sections and details of a building structure by developing a set of construction drawings from design development drawings and specifications.

## ANT - ANTHROPOLOGY COURSES

ANT 101 Cultural Anthropology: GT-SS3
3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Studies human cultural patterns and learned behavior including linguistics, social and political organization, religion, culture and personality, culture change and applied anthropology. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## ANT 107 Introduction to Archaeology: GT-SS3

 3 credit hoursPrerequisite: ENG 090 with a grade of Cor better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces the science of recovering the human prehistoric and historic past through excavation, analysis, and interpretation of material remains. The course provides a survey of the archaeology of different areas of the Old and New Worlds and the works of selected archaeologists and discusses major archaeological theories. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## ANT 111 Physical Anthropology: GT-SS3

3 credit hours
Prerequisite: ENG 090 with a grade of Cor better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Studies human biology and its effects on behavior including principles of genetics and evolution, vertebrates and primates, human origins, human variations and ecology. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## ANT 201 Intro to Forensic Anthropology: GT-SS3

3 credit hours
Prerequisite: ENG 121 with a grade of Cor better
Studies the basic principles of forensic anthropology, an applied field within the discipline of physical anthropology. The course includes the study of the human skeleton, practical application of physical anthropology and archeology, and judicial procedure, as they relate to the identification of human remains within a medico-legal context. The course is one of the Statewide Guaranteed Transfer Courses. GT-SS3

## ANT 215 Indians of North America: GT-SS3

3 credit hours
Prerequisite: ENG 121 with a grade of C or better
Studies the Indians of North America from the origins of native peoples in the New World, through the development of geographic culture areas, to European contact and the subsequent contemporary Native American issues. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## ANT 225 Anthropology of Religion

3 credit hours
Prerequisite: ANT 101 and ENG 121 with a grade of C or better Explores the culturally universal phenomenon of religion including cross-cultural varieties of beliefs in the supernatural and the religious rituals people employ to interpret and control their worlds.

## ANT 250 Medical Anthropology: GT-SS3

3 credit hours
Prerequisite: ANT 101 and ENG 121 with a grade of C or better Studies the basic principles of medical anthropology, an applied field within the discipline of cultural anthropology including the cross-cultural study of practices and beliefs regarding illness, health, death, prevention and therapy; and the interaction of the medical systems between Western and other cultures. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## ANT 255 Anthropology of Energy

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines issues of energy production and consumption that occupy a central role in national and global debates. Where does the majority of our energy currently come from, and where should it come from in the future? What is at stake in our energy lifestyles on both local and global scales?

## ANT 260 Sex, Gender and Culture

3 credit hours
Prerequisite: ANT 101 and ENG 121 with a grade of C or better Explores the anthropology of gender including the relationship between biology and culture in human evolution, archeological evidence of gender distinctions in prehistory, cross-cultural constructions of masculinity, femininity, and sexuality, variations in the sexual division of labor and economic stratification, gender differences in ritual and religion, and the impact of gender issues In contemporary global culture change.

## ANT 275 Special Topics

0-12 credit hours
Prerequisite: ENG 121 with a grade of Cor better
Provides opportunity for off-campus field experience or study of a special topic in anthropology. Field study may occur at archaeological sites, museums, host educational institutions, within ethnographic situations, or other anthropologically appropriate places. Study of a special topic may include that derived from physical anthropology, cultural anthropology, archaeology, or other anthropological discipline.

## ANT 285 Independent Study

$0-12$ credit hours
Prerequisite: ENG 121 with a grade of C or better
Allows the student to independently study certain aspects of anthropology. It provides opportunity to investigate an area of interest that developed in introductory courses.

## ARA - ARABIC COURSES

ARA 101 Conversational Arabic I
3 credit hours
Introduces beginning students to conversational Arabic and focuses on understanding and speaking Arabic. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

## ARA 102 Conversational Arabic II

3 credit hours
Prerequisite: ARA 101 with a grade of C or better
Continues the sequence for students who wish to understand and speak Arabic. Covers basic conversational patterns, expressions, and grammar.

## ARA 111 Arabic Language I

5 credit hours
Begins a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the Arabic language.

## ARA 112 Arabic Language II

5 credit hours
Prerequisite: ARA 111 with a grade of C or better
Continues Arabic Language I in the development of functional proficiency in listening, speaking, reading and writing the Arabic language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors.

## ARA 211 Arabic Language III

3 credit hours
Prerequisite: ARA 111 and ARA 112 with a grade of Cor better
Continues Arabic I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Arabic language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors.

## ARA 212 Arabic Language IV

3 credit hours
Prerequisite: ARA 211 with a grade of Cor better
Continues Arabic Language I, II, and III in the development of increased functional proficiency in listening, speaking, reading and writing the Arabic language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors.

## ARA 275 Special Topics

0-12 credit hours
Prerequisite:Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## ARA 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## ART - ART COURSES

## ART 110 Art Appreciation: GT-AH1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## ART 111 Art History Ancient to Medieval: GT-AH1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Ancient through the Medieval periods. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## ART 112 Art History Renaissance to Modern: GT-AH1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides the knowledge base to understand the visual arts, especially as related to Western culture. Surveys the visual arts from the Renaissance through the Modern periods. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## ART 121 Drawing I

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

## ART 122 Drawing for the Graphic Novel

3 credit hours
Prerequisite: ART 121 with a grade of C or better, or instructor consent
Introduces the drawing and fine art principles used in developing illustrations for the graphic novel. Students explore the graphic novel as a vehicle for a unique, personal venue for artistic expression. Students explore the history of the graphic novel as well as examine different artistic styles used in the development of graphic novel illustrations. The application of artistic concepts in the creation of an individual graphic work and thorough examination of course material in terms of style, design considerations and visual elements are the primary focus. Students will create images for a graphic novel, focusing on unity of style and techniques for creating images appropriate to story line using black and white or grayscale illustrations.

## ART 124 Watercolor I

3 credit hours
Prerequisite: ART 121 with a grade of Cor better
Provides an introduction to the basic techniques and unique aspects of materials involved in the use of either transparent or opaque water media or both. Color theory is included.

## ART 128 Figure Drawing I

3 credit hours
Prerequisite: ART 121 with a grade of Cor better
Introduces the basic techniques of drawing the human figure.

## ART 131 Visual Concepts 2-D Design

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

## ART 132 Visual Concepts 3-D Design

3 credit hours
Prerequisite: ART 131 with a grade of Cor better
Focuses on learning to apply the elements and principles of design to three dimensional problems.

## ART 138 Film Photography I

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

## ART 139 Digital Photography I

3 credit hours
Prerequisite: MGD 101 with a grade of C or better, or instructor consent
Introduces the basic concepts of digital imaging as applied to photography. Using applicable technology and hands-on experience, modern developments are presented leading to the present applications of digital imaging which combine traditional photographic ideas with electronic media. Enables the student to learn how to operate image manipulation software using a variety of scanning equipment, software tools and output devices by executing new assignments and applying these technologies to their photographic process.

## ART 151 Painting I

3 credit hours
Prerequisite: ART 131 with a grade of C or better
Explores basic techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting to depict form and space on a two-dimensional surface.

## ART 161 Ceramics I

3 credit hours
Prerequisite: Instructor consent
Introduces traditional and contemporary ceramic forms and processes including hand building and throwing on the potter's wheel.

## ART 175 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

## ART 207 Art History 1900 to Present: GT-AH1

3 credit hours
Prerequisite: ART 110, or ART 111, or ART 112 with a grade of Cor better
Provides students with the knowledge base to understand the visual arts as related to Modern and Contemporary visual art. Surveys world art of the twentieth century, including Modernism to PostModernism.The course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## ART 221 Drawing II

3 credit hours
Prerequisite: ART 121 with a grade of $C$ or better
Explores expressive drawing techniques with an emphasis on formal composition, color media and content or thematic development.

## ART 238 Film Photography II

3 credit hours
Prerequisite: ART 138 with a grade of C or better
This course is an exploration in camera and lab operations with an emphasis on individual creativity. It includes the development of a comprehensive portfolio.

## ART 239 Digital Photography II

## 3 credit hours

Prerequisite: ART 139 with a grade of C or better
Expands upon the beginning digital photography class. Focuses on digital photography in terms of design and communication factors including color, visual design, lighting, graphics, and aesthetics.

## ART 251 Painting II

3 credit hours
Prerequisite: ART 151 and ART 131 with a grade of C or better, or permission of program chair
This course further explores techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development.

## ART 252 Painting III

3 credit hours
Prerequisite: ART 121 and ART 251 with a grade of C or better Provides continued exploration of techniques, materials, and concepts used in opaque painting processes in oil or acrylic painting, with emphasis on composition and content development.

## ART 253 Painting IV

3 credit hours
Prerequisite: ART 121 and ART 252 with a grade of C or better, or permission of the Program Chair
Explores advanced techniques, materials, and concepts used in opaque painting processes, with emphasis on the development of themes and a cohesive body of work.

## ART 255 Mural Painting I

3 credit hours
Prerequisite: ART 121, ART 131, and ART 151 with a grade of C or better, or instructor consent
This course introduces the student to the history, techniques, materials and concepts of mural painting with an emphasis on composition and content development.

## ART 261 Ceramics II

3 credit hours
Prerequisite: ART 161 with a grade of $C$ or better
A continuation of ART 161, this course emphasizes skill, technique and form.

## ART 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Provides the student with a vehicle to pursue in depth exploration of special topics of interest.

## ART 285 Independent Study

0-12 credit hours
Prerequisite: Instructor consent
Provides structured and guided, individualized research that is organized and tailored around the interests and needs of the individual student.

## ASL - AMERICAN SIGN LANGUAGE COURSES

## ASL 121 American Sign Language I

5 credit hours
Prerequisite: ENG 090 and REA 090 with a grade of C or better, or English assessment score of 95 or better and Reading assessment score of 80 or better, or equivalent ACT/SAT scores Exposes the student to American Sign Language. Readiness activities are conducted focusing on visual/receptive skills and basic communication. Utilizes the direct experience method. Students must complete this course with a " B " or higher or pass the ASL proficiency test with a score of at least $80 \%$ or better prior to registering for ASL 122 if planning to enroll in the Interpreter Preparation Program.

## ASL 122 American Sign Language II

## 5 credit hours

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

## ASL 123 American Sign Language III

5 credit hours
Prerequisite: ASL 122 with a grade of $C$ or better
Provides the student an opportunity to develop a stronger grasp of American Sign Language (ASL), as well as the cultural features of the language. ASL vocabulary is also increased. The direct experience method is used to further enhance the learning process. This course is a continuation of ASL 122 with more emphasis on expressive skills in signing.

## ASL 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
$\overline{\text { Provides students with a vehicle to pursue in depth }}$ exploration of special topics of interest.

## ASL 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## AST - ASTRONOMY COURSES

## AST 101 Astronomy I: GT-SC1

4 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090, or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 61 or better
Focuses on the history of astronomy, the tools of the astronomer and the contents of the solar system including the planets, moons, asteroids, comets, and meteoroids. Incorporates laboratory experience. This course is one of the Statewide Guaranteed Transfer Courses. GT-SC1

## AST 102 Astronomy II w/Lab: GT-SC1

4 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090 or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 61 or better
Emphasizes the structure and life cycle of the stars, the sun, galaxies, and the universe as a whole, including cosmology and relativity. Incorporates laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## BIO - BIOLOGY COURSES

BIO 105 Science of Biology: GT-SC1
4 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090 or English assessment score of 95 or better, Reading assessment score of 80 or better and Math assessment score of 61 or better
Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science - a process of gaining new knowledge - as is the impact of biological science on society. Includes laboratory experiences. Designed for non-science majors. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## BIO 106 Basic Anatomy and Physiology

4 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090, or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 61 or better
Focuses on basic knowledge of body structures and function, and provides a foundation for understanding deviations from normal and disease conditions. This course is designed for individuals interested in health care and is directly applicable to the Practical Nursing Program, Paramedic Program and the Medical Office Technology program.

## BIO 111 General College Biology I with Lab: GTSC1

5 credit hours
Prerequisite: Grade of C or better in REA 090, ENG 090 and MAT 090 or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 61 or better
Examines the fundamental molecular, cellular and genetic principles characterizing plants and animals. Includes cell structure and function and the metabolic processes of respiration and photosynthesis, as well as cell reproduction and basic concepts of heredity. The course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## BIO 112 General College Biology II with Lab: GT-SC1 <br> 5 credit hours

Prerequisite: Grade of C or better in BIO 111
A continuation of Biology I. Includes ecology, evolution, classification, structure, and function in plants and animals. This course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

BIO 201 Human Anatomy and Physiology I: GT-SC1

## 4 credit hours

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

## BIO 202 Human Anatomy and Physiology II: GT-SC1

4 credit hours
Prerequisite: Grade of C or better in BIO 201
Focuses on the integrated study of the human body and the histology, anatomy, and physiology of the following systems and topics: cardiovascular, hematology, lymphatic and immune, urinary, fluid and electrolyte control, digestive, nutrition, respiratory, reproductive, and development. Includes a mandatory hands-on laboratory experience involving experimentation, microscopy, observations, and dissection. This is the second semester of a twosemester sequence. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## BIO 204 Microbiology: GT-SC1

4 credit hours
Prerequisite: Grade of C or better in BIO 202 or BIO 111
Designed for health science majors. Examines microorganisms with an emphasis on their structure, development, physiology, classification, and identification. The laboratory experience includes culturing, identifying, and controlling microorganisms with an emphasis on their role in infectious disease. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## BIO 216 Human Pathophysiology

4 credit hours
Prerequisite: Grade of C or better in ENG 121 AND BIO 204, or a grade of Cor better in ENG 121 and corequisite of BIO 204
Focuses on the alterations in physiological, cellular, and biochemical processes, the associated homeostatic responses, and the manifestations of disease. Prior knowledge of cellular biology, anatomy, and physiology is essential for the study of pathophysiology.

## BIO 220 General Zoology: GT-SC1

## 5 credit hours

Prerequisite: Grade of C or better in BIO 111 or BIO 105
Focuses on the study of invertebrate and vertebrate animals and examines structure, evolutionary development, ecology, classification, physiology, reproduction, and zoogeography. A survey of zoological diversity emphasizes the characteristics, zoological contributions, and classification of animal phyla and major classes. Requires hands-on laboratory and field experience. Designed for biology majors. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## BIO 221 Botany I: GT-SC1

5 credit hours
Prerequisite: Grade of C or better in BIO 111
Studies nonvascular and vascular plants, emphasizing photosynthetic pathways, form and function, reproduction, physiology, genetics, diversity, evolution, and ecology. This course requires mandatory hands-on laboratory and field experience. This course is designed for biology majors. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## BTE - BUSINESS TECHNOLOGY COURSES

## BTE 100 Computer Keyboarding I

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

## BTE 102 Keyboarding Applications I

2 credit hours
Prerequisite: BTE 100 with a grade of C or better or instructor consent (keyboarding skills of 20 wpm )
Designed for students with minimal keyboarding skills. Introduces letters, tables, memos and manuscripts. Emphasizes speed and accuracy.

## BTE 103 Keyboarding Applications II

43 credit hours
Prerequisite: BTE 102 with a grade of C or better (keyboarding skills of 30 wpm )
Reinforces basic keyboarding formats and procedures. Productivity and decision-making skills are exercised. Emphasizes speed and accuracy.

## BTE 108 Ten-Key by Touch

1 credit hour
Introduces the student to touch control of a tenkey pad. The class emphasizes the development of speed and accuracy using proper technique.

## BTE 111 Keyboarding Speedbuilding I

2 credit hours
Prerequisite: BTE 100 with a grade of $C$ or better or instructor consent
Designed to increase speed and improve accuracy in keyboarding on the PC through the use of correct techniques and concentrated effort.

## BTE 112 Keyboard Speedbuilding II

2 credit hours
Prerequisite: BTE 111 with a grade of C or better or instructor consent
Continues the skill building sets from BTE 111. This course is designed to further increase speed and improve accuracy in keyboarding on the PC through the use of correct techniques and concentrated effort.

## BTE 117 Legal Terminology and Procedures

3 credit hours
Introduces legal terminology and its proper usage in legal documents, legal instruments, and legal correspondence. Emphasis will be placed on definition of legal terms and expressions, correct spelling of terms, correct pronunciation, proper usage in a legal context, and legal procedures. The student will gain a basic understanding of the various areas of the law and career opportunities.

## BTE 120 Electronic Office Procedures

3 credit hours
Provides instruction in the latest electronic office procedures using business technologies which include: e-mail, FAX, Windows, presentation graphics, telephone techniques, internet, electronic calendaring and appointment scheduling.

## BTE 125 Records Management

3 credit hours
Instructs on how records are created, stored and retrieved. Covers the basic filing rules - classifying, indexing, coding, storing, and retrieving as applied to the basic methods - alphabetic, chronological, subject, numeric, and geographic. Emphasizes "hands-on" records management through the use of simulations, which includes manual and/or computer software.

## BTE 225 Administrative Office Management

3 credit hours
Emphasis is placed on functions of the office. Includes office organization, work in the office, office layout, equipment and supplies, procurement and control, work flow, forms design, record storage and retrieval systems, personnel administration and problems, and government control.

## BTE 287 Cooperative Education/Internship

3 credit hours
Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students are placed at approved work sites that are related to their program of study. They work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator. Only offered in fall semester.

## BUS - BUSINESS ADMINISTRATION COURSES BUS 110 Working for Yourself <br> \section*{2 credit hours}

Prerequisite: BUS 115 with a grade of Cor better
Introduces small business start-up and offers practical training designed to provide students with a fundamental understanding of the special concerns of self-employment. The course also provides an overview of the subjects needed to become an entrepreneur, including financing, law insurance, government regulations, record keeping, and taxes. Guest speakers with expertise in the various topics add to the weekly discussion.

## BUS 115 Introduction to Business

3 credit hours
Prerequisite: Grade of C or better in ENG 060, REA 060 and MAT 030, or English assessment scores of 70 or better, Reading assessment score of 62 or better and Math assessment score of 57 (AR) or better
Focuses on the operation of the American business system. Covers fundamentals of the economy, careers and opportunities, marketing, management, production, governmental regulations, tools of business, and social responsibilities.

## BUS 116 Personal Finance

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

## BUS 117 Business Writing

1 credit hour
Focuses on specific business writing processes needed to produce business memos, email, good and bad news messages, reports, graphics in writing, electronic presentations and proofreading.

## BUS 118 Business Survival Skills

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

## BUS 175 Special Topics in Business

3 credit hours
Provides students with a vehicle to pursue special topics of interest in business. The content of this course is designed on an as needed basis to provide current, up-to-date information. the content of this course will change from year to year.

## BUS 203 Introduction to International Business

3 credit hours
Prerequisite: BUS 115 with a grade of Cor better
Provides student with an understanding of the interdisciplinary nature of international business. Course will cover the development of international business, theories and methods of international trade, financing mechanisms and terms used in export documentation and export finance, the effects of economics, political and cultural environment on international business and trade, impact of geography in business transactions, legal aspects of international business, and developing an effective international marketing strategy.

## BUS 216 Legal Environment of Business

3 credit hours
Prerequisite: BUS 115 or CIS 118 with a grade of C or better Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government and business. Specific attention will be devoted to economic
regulation, social regulation, regulation and laws impacting labor management issues and environmental concerns. Students will develop an understanding of the role of law in social, political and economic change.

## BUS 217 Business Communications and Report Writing

3 credit hours
Prerequisite: ENG 090 with a grade of C or better or English assessment score of 095 or better, or equivalent ACT/SAT scores Emphasizes effective business writing and cover letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

## BUS 226 Business Statistics

3 credit hours
Prerequisite: Grade of C or better in BUS 115, and MAT 090 or MAT107 and REA 090, or BUS 115 and Math assessment score of 61 or better, and Reading assessment score of 80 or better Focuses on statistical study, descriptive statistics, probability, and the binomial distribution, index numbers, time series, decision theory, confidence intervals, linear regression, and correlation. Intended for the business major.

## BUS 287 Cooperative Education

3 credit hours
Provides students with the opportunity to supplement course work with practical work experience related to their educational program and occupational objectives. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator. Students are placed at approved work stations related to their program of study.

## CAD - COMPUTER ASSISTED DESIGN COURSES

## CAD 101 Computer Aided Drafting I

3 credit hours
Focuses on basic computer aided drafting skills using the latest release of CAD software. Includes file management, Cartesian coordinate system, drawing set-ups, drawing aids, layer usage, drawing geometric shapes, editing objects, array, text applications, basic dimensioning, and Help access.

## CAD 102 Computer Aided Drafting II

3 credit hours
Prerequisite: CAD 101 with a grade of C or better or instructor consent
Focuses on advanced computer aided drafting skills using the latest release of CAD software. Includes blocks and wblocks, polylines, multilines, polyline editing, advanced editing, editing with grips, hatching, isometric drawings, dimensions and dimension variables, paper space and viewports, templates, external references, and printing/plotting.

## CAD 108 Introduction to MicroStation

3 credit hours
Prerequisites: Instructor permission
Introduces basic computer-aided drafting using the Bentley MicroStation software. Students learn specific computer-aided drafting methods. A final project incorporates the basic drafting techniques to the production of a small floor plan. Course employs a PC platform.

## CAD 115 Sketchup

3 credit hours
Focuses on the understanding of basic concepts of the software program Google SketchUp ${ }^{\oplus}$. Students will learn how to draw and extrude building shapes, stairs, roofs, and interiors utilizing advanced modeling techniques.

## CAD 153 Introduction to Pro Engineer/Basics 3 credit hours

Prerequisite: CAD 101 with a grade of $C$ or better or instructor consent
Introduces basic Pro/Engineer software operation including part creation, drawing creation, and assembly creation. Pro/Engineer is a 3D solid modeling software from parametric technologies.

## CAD 224 Revit

3 credit hours
Prerequisite: Instructor permission
Provides students with the software application training in AutoDesk Revit necessary to produce 3D Architectural models and 2D drawings utilizing AIA standards.

## CAD 225 AutoCAD for Architecture

3 credit hours
Prerequisites: ENG 090 with a grade of C or better, or English assessment score of 95 or better; REA 090 with a grade of C or better, or Reading assessment score of 80 or better; and MAT 090 with a grade of C or better, or Math assessment score of 61 or better; or equivalent ACT/SAT scores
Provides students with the software application training in Architectural construction drawings using industry standard software. Includes creating floorplans, sections, elevations and details necessary to produce 2D and 3D Architectural construction drawings.

## CAD 227 Advanced Revit

3 credit hours
Prerequisite: CAD 224 with a grade of Cor better or instructor consent
This course focuses on the advanced applications of the Revit software. Includes Family Editing, Topographic Site Plans, Worksharing, Phases, Advanced Scheduling, Custom Annotation, and Presentation Techniques.

## CAD 240 Inventor I — AutoDesk

3 credit hours
Prerequisite: CAD 101 with a grade of C or better or instructor consent
Introduces basic non-parametric 3D concepts to build confidence in 3D thinking and moves on to three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as how to produce 2D drawings from the 3D models.

## CAD 244 Advanced Inventor

3 credit hours
Prerequisite: CAD 240 with a grade of C or better or instructor consent
This course focuses on the advanced applications of the parametric software Inventor. Includes management of design data, advanced assembly and analysis of model creations and constraints, documentation of bill of materials and parts lists, rendering and animation and testing a model assembly.

## CAD 255 SolidWorks/Mechanical

## 3 credit hours

Prerequisite: CAD 101 with a grade of Cor better or instructor consent
Introduces basic non-parametric 3D concepts to build confidence in 3D thinking and progresses to three-dimensional parameters. The student learns to construct, modify, and manage complex parts in 3D space as well as to produce 2D drawings from the 3D models.

## CAD 259 Advanced SolidWorks

## 3 credit hours

Prerequisite: CAD 255 with a grade of C or better or instructor consent
This course focuses on the advanced applications of the parametric software SolidWorks. Includes management of design data, advanced assembly and analysis of model creations and constraints, documentation of bill of materials and parts lists, rendering and animation and testing a model assembly.

## CHE - CHEMISTRY COURSES

CHE 101 Introduction to Chemistry I: GT-SC1 5 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090, or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 61 or better
Includes the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acid and base, gas laws, and condensed states. Laboratory experiments demonstrate the above concepts qualitatively and quantitatively. Designed for non-science majors, students in occupational and health programs, or students with no chemistry background. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## CHE 109 General, Organic and Biochemistry

4 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090, or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 61 or better
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.

Note: Recommended for allied health career areas, specifically pre-dental hygiene.

## CHE 111 General College Chemistry I: GT-SC1 <br> 5 credit hours

Prerequisite: Grade of C or better in ENG 090, REA 090 and corequisite or prerequisite in MAT 121, or English assessment score of 95 or better, Reading assessment score of 80 or better and a College Level Math score of 63 or better, or equivalent ACT/SAT scores
Focuses on basic chemistry and measurement, matter, chemical formulas, reactions and equations, stoichiometry and thermochemistry. This course covers the development of atomic theory culminating in the use of quantum numbers to determine electron configurations of atoms, and the relationship of electron configuration to chemical bond theory and molecular orbital theory. The course includes gases, liquids, and solids and problemsolving skills are emphasized through laboratory experiments. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## CHE 112 General College Chemistry II: GT-SC1

5 credit hours
Prerequisite: Grade of C or better in CHE 111 and MAT 121, or English assessment score of 95 or better and Math assessment score of 103 or better
Presents concepts in the areas of solution properties, chemical kinetics, chemical equilibrium, acid-base and ionic equilibrium, thermodynamics, electrochemistry, nuclear chemistry, and organic chemistry. This course emphasizes problem-solving skills and descriptive contents for these topics. Laboratory experiments demonstrate qualitative and quantitative analytical techniques. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## CHE 211 Organic Chemistry

5 credit hours
Prerequisite: Grade of C or better in CHE 112
Focuses on compounds associated with the element carbon including structure and reactions of aliphatic hydrocarbons and selected functional group families. The course covers nomenclature of organic compounds, stereochemistry, reaction mechanisms such as SN1, SN2, E1 and E2. Laboratory experiments demonstrate the above concepts plus the laboratory techniques associated with organic chemistry.

## CHE 212 Organic Chemistry II

5 credit hours
Prerequisite: Grade of C or better in CHE 211
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.

## CHI-CHINESE COURSES

## CHI 101 Conversational Chinese I

3 credit hours
Introduces beginning students to conversational Chinese and focuses on understanding and speaking Chinese. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

## CHI 102 Conversational Chinese II

3 credit hours
Prerequisite: CH 101 with a grade of C or better
Continues the sequence for students who wish to understand and speak Chinese. Covers basic conversational patterns, expressions, and grammar.

## CHI 111 Chinese Language I

5 credit hours
Focuses on the development of functional proficiency in listening, speaking, reading and writing the Chinese language.
Note: The order of the topics and methodology varies according to individual tests and instructors.

## CHI 112 Chinese Language II

5 credit hours
Prerequisite: CHI 111 with a grade of C or better
Continues Chinese Language I in the development of functional proficiency in listening, speaking, reading and writing the Chinese language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors.

## CHI 211 Chinese Language III <br> 3 credit hours

Prerequisite: CHI 112 with a grade of $C$ or better
Focuses on the further development of functional proficiency in listening, speaking, reading and writing the Chinese language.

## CHI 212 Chinese Language IV

3 credit hours
Prerequisite: CHI 211 with a grade of C or better
Focuses on the further development of functional proficiency in listening, speaking, reading and writing the Chinese language.
Note: A continuation of Chinese III.

## CHI 275 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## CHI 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## CHW - COMMUNITY HEALTH WORKER COURSES <br> CHW 120 Community Health Issues <br> 3 credit hours <br> Prerequisite: High school diploma or GED <br> Corequisite: CHW 130 and CHW 297 <br> Introduces students to the multiple health issues for community health workers. Develops core competencies necessary to function as a Community Health Worker.

## CHW 130 Community Health Resources

3 credit hours
Prerequisite: High school diploma or GED
Corequisite: CHW 120 and CHW 297
Introduces students to the skills and resources necessary for community health work with clients in the community.

## CHW 136 Psychological Impact of Chronic Disease

 1 credit hourStudents will acquire knowledge regarding the psychosocial aspects of chronic disease. They will be able to differentiate between normal responses and problematic responses in order to identify resources, make appropriate referrals, and assist with patient decision-making.

## CHW 137 End of Life/Palliative Care

0.5 credit hours

Explore end-of-life concepts such as advance planning, legal considerations, end-of-life choices, and palliative care, including physical, emotional, and spiritual aspects. Learn to facilitate discussion regarding end-of-life choices, including hospice care.

## CHW 138 Basic Patient Navigation

3 credit hours
Prerequisite: ENG 060 with a grad of C or better
Enables students to develop skills necessary to effectively communicate and build relationships with patients, locate health resources, solve problems, and manage information and records.

## CHW 297 Community Health Worker Field Experience <br> 2 credit hours

Prerequisite: High school diploma or GED
Corequisite: CHW 120 and CHW 130
Provides students with an opportunity to apply Community Health Worker knowledge and to practice Community Health Worker skills in community settings.

## CIS - COMPUTER INFORMATION SYSTEMS COURSES

See CNG - Computer Network Technologies on pg. 15
See CSC - Computer Science on pg. 18
See CWB - Computer Web Base on pg. 19

## CIS 101 Alternative I/0 for Computers

1 credit hour
Focuses on teaching alternative methods for inputting data into a computer. Individualized for each student, the course covers such programs as Dragon NaturallySpeaking, Dragon Dictate, or Job Access with Speech (JAWS). It is designed for
students who have little or no previous computer experience.

## CIS 110 Introduction to the PC

1 credit hour
Provides the beginning computer user with handson experience in the elementary use of the personal computer. This course introduces the basic feature of and the terminology associated with personal computers, including topics such as database, spreadsheet, and word processing.

## CIS 114 Computing for Health IT

3 credit hours
This an introductory course in Computer Information Systems for Healthcare professionals. The focus of the class will be on computers as applied to Healthcare needs. The class will cover data representation, data communication, data storage, networking architecture and security. Network security will be covered as it relates to Electronic Health Records and Healthcare Privacy issues. The class will provide an introduction to computer programming and database management.

## CIS 117 Introduction to Technical Applications

2 credit hours
Provides a basic introduction of standard software packages available to support a microcomputerbased workstation. Includes entry-level hands-on work with word processors, spreadsheets, electronic presentations and basic Internet functionality to support the technical environment.

## CIS 118 Introduction to PC Applications

3 credit hours
Prerequisite: Grade of C or better In ENG 060, REA 060 and MAT 030 or English assessment score of 60 or better, Reading assessment score of 50 or better and Math assessment score of 40 (AR) or better
Introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, database, and presentation graphics. Includes the use of a web browser to access the internet.

## CIS 124 Introduction to Operating Systems

3 credit hours
Prerequisite: CIS 118 with a grade of C or better
Introduces concepts, terminology and hands-on skills in the use of DOS and Windows. Emphasizes navigation, file manipulation, file creation and troubleshooting.

## CIS 130 - Introduction to Internet

1 credit hour
Enhances the student's knowledge of the Internet and its resources. Individuals learn terminology in dealing with the Internet. Includes privacy and copyright issues with information retrieved from the Internet. Students experience the use of e-commerce, multimedia and e-mail. Explores searching the Internet and credibility of information obtained with searches.

CIS 135 Complete PC Word Processing/Word (software package)
3 credit hours
Prerequisite: CIS 118 with a grade of Cor better
Explores a complete array of word processing skills. The skills needed to create, edit, format, and printing documents are covered. Other topics include character, paragraph, and page formats, the use of spelling checkers and thesaurus, hyphenation, tables, mail merge, document design, and graphics.

## CIS 136 Microsoft Office Specialist Certification: Word

1 credit hour
Prerequisite: CIS 135 with a grade of C or better or instructor consent based on prior experience
Prepares students for the Microsoft Office Specialist certification examination for Word. Students use software to determine strengths and weaknesses and elect to review and prepare for either the Core or Expert level exam.

## CIS 140 Microsoft Outlook

1 credit hour
Introduces the functions used in Microsoft Outlook including e-mail messages, calendar, contacts, tasks, journals, and notes.

## CIS 145 Complete PC Database

3 credit hours
Prerequisite: CIS 118 with a grade of C or better or instructor consent
Explores a complete array of database skills. Includes table, query, form, and report creation and modification. Other topics include application integration and automation of database tasks within the database.

## CIS 149 Microsoft Office Specialist Certification Prep: Access

1 credit hour
Prerequisite: CIS 145 with a grade of Cor better or instructor consent based on prior experience
Prepares students for the Microsoft Office Specialist certification examination for Access. Students use software to determine strengths and weaknesses and elect to review and prepare for the Core level Certification exam.

## CIS 155 PC Spreadsheet Concepts: Excel

## 3 credit hours

Prerequisite: CIS 118 with a grade of C or better or instructor consent
Exposes the student to a wide range of uses of the electronic spreadsheet with special emphasis placed on using it as a business tool. Topics include fundamentals and terms, creating and saving workbooks, entering and using formulas, formatting, printing, multiple-page workbooks, creating charts, entering and using functions, managing lists, and simple macros.

## CIS 159 Microsoft Office Certification Prep: Excel

 1 credit hourPrerequisite: CIS 155 with a grade of C or better or instructor consent
Prepares students for the Microsoft Office Specialist certification examination for Excel. Students use software to determine strengths and weaknesses
and elect to review and prepare for either the Core or Expert level Certification exam. The MOUS test is not included in this course.

## CIS 165 Complete Presentation Graphics: PowerPoint

3 credit hours
Prerequisite: CIS 118 with a grade of C or better or instructor consent
Focuses on the development of presentation graphics materials including graphs, charts, illustrations, and diagrams. Emphasizes effective communication through computerized presentations. Covers features of the software and effective presentation techniques.

## CIS 169 Microsoft Office Specialist Certification Prep: PowerPoint

1 credit hour
Prerequisite: CIS 165 with a grade of C or better or instructor consent based on prior experience
Prepares students for the Microsoft Office Specialist certification examination for PowerPoint. Students use software to determine strengths and weaknesses and elect to review and prepare for the Core level Certification exam.

## CIS 218 Advanced PC Applications

3 credit hours
Prerequisite: CIS 135 and CIS 155 with a grade of Cor better or instructor consent
Covers the advanced capabilities of a PC software applications suite. Emphasizes solving business problems by integrating data from all of the software applications that facilitate the production of useful information. Printed documents, reports, slides, and forms are produced to communicate information.

## CIS 240 Database Design and Development

3 credit hours
Prerequisite: CIS 145 with a grade of C or better or instructor consent
Introduces the basic concepts of relational databases, data storage, and retrieval. Covers database design, data modeling, transaction processing, and introduces the Structured Query Language for databases.

## CIS 243 Introduction to PL/SQL

3 credit hours
Prerequisite: CSC 119 with a grade of C or better or instructor consent
Corequisite: CIS 145
Introduces students to creating database structures and storing, retrieving and manipulating data in a relational database. SQL is the set of statements that all users and programs must use to access data in the Oracle database. This course also focuses on SQL*Plus to manipulate SQL statements.

## CIS 260 Troubleshooting Microsoft Applications

 3 credit hoursPrerequisite: CIS 218 and CIS 124 with a grade of Cor better Focuses on troubleshooting techniques and procedures that are used in Microsoft Office and other applications. Includes learning how to manage the advanced configuration of Word, Excel, Access, and PowerPoint.

## CIS 267 Management of Information Systems

3 credit hours
Prerequisite: CIS 118 with a grade of C or better
Introduces the concepts and techniques of managing computer-based information resources. Includes hardware, software, personnel, control techniques, and the placement and integration of information systems resources within the organization.

## CIS 287 Cooperative Education

1 credit hour
Prerequisite: Instructor consent
Provides students an opportunity to gain practical experience in applying their occupational skills and/or to develop specific skills in a practical work setting. The instructor works with the student to select an appropriate work site, establish learning objectives, and to coordinate learning activities with the employer or work site supervisor.

## CNG - COMPUTER NETWORK TECHNOLOGIES COURSES

CNG 101 Introduction to Networking
3 credit hours
Prerequisite: CIS 118
Focuses on underlying concepts of data communications, telecommunications, and networking. Emphasizes the terminology and technologies in current networking environments and provides a general overview of the field of networking as a basis for continued study in the field.

## CNG 102 Local Area Networks

3 credit hours
Prerequisite: CNG 101 or instructor consent.
Introduces Local Area Networking. Focuses on discussions and demonstrations of planning, installing, and supporting networks.

## CNG 104 Introduction to TCP/IP

3 credit hours
Prerequisite: CIS 118 with a grade of C or better or instructor consent
Outlines four important networking architectures in corporate environments today - TCP/IP, SNA, AppleTalk, and DNA. Focuses on the major components and functions of each of these architectures, as well as methods used to connect different architectures. Provides students with concepts that are important to the field of systems integration, as well as a conceptual basis for understanding network architectures.

## CNG 105 Internet Technologies

3 credit hours
Prerequisite: CIS 118 with a grade of C or better
Outlines the important Internet Technologies in use today. Focuses on the major components and functions of each of these technologies, as well as methods used to connect different technologies. Provides the student with concepts that are important to the field of systems integration with the Internet as well as a conceptual basis for understanding Internet Technologies.

## CNG 116 Microcomputer Hardware

3 credit hours
Corequisite: CIS 118 with a grade of C or better Introduces computer hardware. Since hardware depends upon specific software to make it work properly, the course also explores relevant software topics. The course covers taking computers apart, diagnosing and fixing minor problems, and upgrading PCs with new components.

## CNG 120 A+Certification Preparation

4 credit hours
Prerequisite: CNG 116 with a grade of C or better
Prepares students for the CompTIA A+ certification examination. Hardware and software concepts are reviewed using A+techniques.

## CNG 124 Networking I: Network+

3 credit hours
Prerequisite: CIS 118 with a grade of $C$ or better
Provides students with the knowledge necessary to understand, identify and perform necessary tasks involved in supporting a network. Covers the vendor-independent networking skills and concepts that affect all aspects of networking, such as installing and configuring the TCP/IP. This course also prepares students for the Networking II: Network+ course.

## CNG 125 Networking II: Network+ <br> 3 credit hours

Prerequisite: CNG 124 with a grade of C or better
Continues to provide students with the knowledge necessary to implement and support a network. Focuses on the vendor-independent networking skills and concepts that affect all aspects of networking. The Networking I and II: Network + courses prepare students for the Network+ certification.

## CNG 131 Network Security Fundamentals

3 credit hours
Prerequisite: CNG 124 with a grade of C or better
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 operation/organizational security is discussed as it relates to physical security, disaster recovery, and business continuity. Computer forensics is introduced.

## CNG 132 Principles of Information Security

3 credit hours
Prerequisite: CNG 131 with a grade of C or better
Examines the field of information security to prepare information systems students for their future roles as business decision-makers. The course presents a balance of managerial and the technical aspects of information security. The concepts covered in this course should be helpful for students working towards the Certified Information Systems Security Professional (CISSP) certification.

## CNG 160 Telecommunications I

3 credit hours
Prerequisite: CIS 118 with a grade of C or better
Introduces the background needed to understand telephony products and services in the telecommunications industry. Includes hardware and devices, transmission characteristics and codes, network configurations, software, and protocols.

## CNG 211 Windows Configuration: (OS)

3 credit hours
Prerequisite: CNG 124 with a grade of C or better or instructor consent
Provides students with the knowledge and skills necessary to address the implementation and desktop support needs of customers who are planning to deploy and support Microsoft Windows Client OS in a variety of network operating system environments.

## COM - COMMUNICATION COURSES COM 100 Workplace Communication

1 credit hour
Covers topics that teach students how to communicate effectively in the workplace. Includes listening speaking, reading, and writing and emphasizes the importance of these four modes of communication in the workplace.

## COM 105 Career Communication

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Develops skills needed in obtaining and keeping a job. Includes job searching, applications, resumes, interviews, and the dynamics of customer, peer, and managerial relationships. Emphasizes speaking, writing, listening, critical reading skills, and vocabulary development essential to the employment world.

## COM 115 Public Speaking

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

## COM 125 Interpersonal Communication

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines the communication involved in interpersonal relationships occurring in family, social and career situations. Relevant concepts include selfconcept, perception, listening, nonverbal communication, and conflict.

## COM 126 Communication in Healthcare

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Familiarizes the student with interactive concerns in settings related to patient-client care. Course includes discussions of diverse cultures, client interaction and family/caregiver issues. The student will
also address the concerns of attitude, office politics, teamwork, self-initiative and conflict management as specifically experienced in the patient as client setting.

## COM 175 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
$\overline{\text { Provides students with a vehicle to pursue in depth }}$ exploration of special topics of interest.

## COM 205 Voice and Diction

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Studies the physiological production of the speaking voice and methods for improving the quality of the spoken word in general American speech.

## COM 216 Principles of Speech Communication II

3 credit hours
Prerequisite: COM 115 with a grade of C or better Emphasizes the continued study of rhetorical theory and analysis as it relates to public speaking.

## COM 217 Group Communication

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines group communication theories with an emphasis on leadership and group behaviors. The course provides opportunities for group participation.

## COM 220 Intercultural Communication: GT-SS3

 3 credit hoursPrerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores the link between culture and communication and will develop and/or enhance communication skills and the abilities appropriate to a multicultural society. Emphasis will be on understanding diversity within and across cultures. Relevant concepts include perception, worldview, context, ethics, language, and nonverbal communication. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## COM 226 Oral Interpretation

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Exposes the student to the artistic, interpretive, and communicative potential to be found in the reading and performance of great literature and rhetoric such as is found in prose, poetry, and drama.

## COM 275 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## COM 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## CRJ - CRIMINAL JUSTICE COURSES

CRJ 110 Introduction to Criminal Justice
3 credit hours
Prerequisite: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Introduces a study of the agencies and processes involved in the criminal justice system: the legislature, the police, the prosecutor, the public defender, the courts, and corrections. Includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon intercomponent relations and checks and balances.

## CRJ 112 Procedural Criminal Law

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Covers constitutional and procedural considerations affecting arrest, search and seizure, postconviction treatment, origin, development, philosophy, and constitutional basis of evidence. Focuses on degrees of evidence and rules governing admissibility, judicial decisions interpreting individual rights, and an analysis of case studies from arrest through final appeal.

## CRJ 125 Law Enforcement Operations

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Examines the complexity and multi-dimensional aspects of the law enforcement role and career; law enforcement discretion; law enforcement values and culture in modern America. Covers the role and functions of law enforcement in occupational, social, racial and ethnic, political and organizational context.

## CRJ 127 Crime Scene Investigation

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Focuses on basic procedures in crime scene management to include photography and preparing initial reports and sketches. Includes processing evidence and related criminalistic procedures. Covers interviewing suspects, witnesses and victims to include the recording of identifications and descriptions. Incorporates lab and lecture.

## CRJ 135 Judicial Function

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Examines the criminal process with an analysis of the major judicial decision-makers, i.e., prosecutors, defense attorneys, judges, and the discretionary aspects of adjudication.

## CRJ 145 Correctional Process

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading
assessment score of 80 or better, or equivalent ACT/SAT scores Focuses on the post-conviction corrections process, the development of a correctional philosophy, theory, and practice, a description of institutional operation, programming and management, and com-munity-based corrections, probation, and parole.

## CRJ 146 Community Based Corrections

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Introduces an analysis of community based correctional programs and procedures. Emphasizes the environment and the relationship to public safety, reintegration and punishment.

## CRJ 201 Emergency Dispatching

5 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Focuses on the unique knowledge, skills and abilities required for working in the Emergency Telecommunications industry. The course will focus on the basics of the emergency communication center, emergency telecommunication technology, caller management, call classification, legal aspects and stress management.

## CRJ 205 Principles of Criminal Law

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores 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 208 Criminal Evidence

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Reviews the basic principles of evidence in state and Federal criminal proceedings. Includes analysis of the Federal Rules of Evidence and the Colorado Evidence Rules, as well as evidentiary and procedural requirements in the courts. The course will focus on evidence questions in the context of the examination of witnesses, competency, privilege, relevancy, hearsay, burden of proof and the presentation of scientific and demonstrative evidence. Constitutional guidelines affecting evidence collection and admissibility will also be reviewed.

## CRJ 210 Constitutional Law

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Focuses on the powers of government as they are allocated and defined by the United States Constitution. Includes intensive analysis of United States Supreme Court decisions.

## CRJ 215 Constitutional Rights of Inmates

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Covers an overview of the criminal justice system as it pertains to the constitutional rights of inmates including civil and criminal liabilities, legal services and disciplinary proceedings.

## CRJ 230 Criminology

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Examines the question of crime causation from legal, social, political, psychological and theoretical perspectives. Covers the history and development of criminology.

## CRJ 231 Introduction to Forensic Science and Criminalistics

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Focuses on the fundamentals of forensic science that are essential for gathering evidence at the crime scene and analyzing it in the crime laboratory.

## CRJ 236 CRJ Research Methods

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Introduces and applies methods for criminal justice and criminology with an emphasis on the scientific method and the role of empirical inquiry into criminal justice and criminology. This course will include the study of methodologies of data collection and analysis, the logic of research, the role of theory, measurement, sampling and research designs. Field research and the professional norms and ethics of criminal justice and criminology research will also be covered.

## CRJ 239 Managing Emergency Worker Stress

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Provides an understanding of trauma reaction and stress management for first line responders, i.e. police officers, victim advocates, paramedics and firemen. Focuses on practical application of coping skills and stress management for first line responders.

## CRJ 250 Computer Crime Investigations

3 credit hours
Prerequisites: Grade of Cor better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Provides a basic foundation of the skills and knowledge necessary to understand and investigate the computer criminal. Investigative procedures, interviewing skills and the necessity of search warrants will be covered. Legal issues
regarding personal liability, privacy and wiretapping will also be discussed.

## CRJ 257 Victimology

3 credit hours
Prerequisites: Grade of Cor better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Introduces the student to the role the crime victim plays in the criminal justice system. The traditional response that a crime victim receives from the system will be studied and the psychological, emotional and financial impact these responses have on victimization will be analyzed.

## CRJ 264 Practical Crime Scene Investigation

3 credit hours
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Introduces the investigation of death from the edico-legal standpoint. Discusses all aspects of an investigation from the initial findings to identification of the deceased and the determination of cause and time of death. Includes the follow-up investigation and the preparation and presentation of evidence for the criminal trial.

## CRJ 275 Special Topics

Variable credits, 0-12
Prerequisites: Grade of C or better in ENG 090 or English assessment score of 95 or better and REA 090 or Reading assessment score of 80 or better, or equivalent ACT/SAT scores Provides students with a vehicle to pursue in-depth exploration of special topics of interest. The content of this course will change from year to year.

## CSC - COMPUTER SCIENCE COURSES CSC 105 Computer Literacy

## 3 credit hours

Introduces students to current technologies. Special focus on ensuring students become technologically competent and computer literate. Emphasis is placed on technology fundamentals and terminology through the evaluation of hardware and software. Provides students with a working knowledge of operating system use, file management and security. Introduces the Internet as a research and communication tool. Application software is covered to ensure the fundamental computer skills for personal, academic, and business use are obtained.

## CSC 119 Introduction to Programming

3 credit hours
Prerequisite: MAT 090 with a grade of C or better Corequisite: CIS 118 with a grade of Cor better or instructor consent Focuses on general introduction to computer programming. Emphasizes the design and implementation of structured and logically correct programs with good documentation. Focuses on basic programming concepts, including numbering systems, control structures, modularization, and data processing. A structured programming language will be used to implement the student's program design.

## CSC 150 Visual Basic Programming

3 credit hours
Prerequisite: CSC 119 with a grade of C or better or instructor consent
Introduces programming and applications development for the Microsoft Windows Programming environment using Visual Basic for Windows.

## CSC 152 Database Programming with Visual Basic

3 credit hours
Prerequisite: CSC 150 with a grade of $C$ or better
Provides an in-depth look at Visual Basic as a database application development language. Topics may include ADO, multi-tier components, databound controls, remote data access, SQL and ASP.

## CSC 160 Computer Science I: (Language)

4 credit hours
Prerequisite: MAT 099 with a grade of $C$ or better
Introduces students to the discipline of computer science and programming. Algorithm development, data representation, logical expressions, sub-programs, and input/output operations using a high-level programming language are covered. Intensive lab work outside of class time is required.

## CSC 161 Computer Science II: (Language)

4 credit hours
Prerequisite: CSC 160 with a grade of C or better or instructor consent
Continues the structured algorithm development and problem solving techniques begun in Computer Science I. Enables students to gain experience in the use of data structures and design of larger software projects. Requires intensive computer laboratory experience.

## CSC 240 Java Programming

3 credit hours
Prerequisite: CSC 119 with a grade of C or better or instructor consent
Introduces students to Java programming language and covers basic graphics, events/procedures, user interface, and libraries. Enables the student to write and execute a variety of Java programs. Incorporates Java Applets into HTML.

## CWB - COMPUTER WEB BASE COURSES

## CWB 206 Web Data Base

## 3 credit hours

Corequisite: CIS 145 with a grade of C or better
Emphasizes scripting languages used to create and manage web databases. Targets to multimedia authors who wish to add database management and search functionality to their web sites. Enables students to build an inexpensive portable database solution.

## DAN - DANCE COURSES

## DAN 130 Dance Sampler

1 credit hour
Introduces the beginning dancer to popular dances through a social dance sampler in Salsa, Swing, and Country Western Dance technique, footwork, body posturing, rhythms, and dance floor etiquette. Ex-
amines a variety of dances such as Salsa`s Mambo, Cha-Cha, and Rumba; Swing’s Lindy Hop (jitterbug); and Country Western`s Two Step, Cowboy Waltz, Cotton-Eyed Joe and various Country Western line dances.

## DEH - DENTAL HYGIENE COURSES DEH 100 Dental Hygiene Basic \& Terminology

 1 creditIntroduces incoming dental hygiene students to the terminology they will need to build upon as they progress through the program. This includes dental terminology with specific relevance to dental hygiene, HIPAA and its legal basis, procedures and protocols relevant to a dental hygiene school setting including rudimentary ethical considerations.

## DEH 101 Preclinical Dental Hygiene Lecture

2 credit hours
Prerequisite: Enrollment in Dental Hygiene program Corequisite: DEH 102
Explores basic dental hygiene theory and development of basic skills. Focuses on the application of diagnostic, preventative and therapeutic procedures and includes an introduction to dentistry and dental hygiene, dental and medical terminology, infection control, the removal of tooth deposits, patient medical and dental histories, preventive instruction and treatment planning.

## DEH 102 Preclinical Dental Hygiene Care 3 credit hours

Prerequisite: Enrollment in Dental Hygiene program Corequisite: DEH 101
Focuses on clinical experiences in basic dental hygiene procedures and techniques including basic instrumentation, infection control, and patient assessment skills. Students participate in a variety of clinical learning experiences.

## DEH 103 Dental Anatomy and Histology

3 credit hours
Prerequisite: Enrollment in Dental Hygiene program
Corequisite: DEH 123
Focuses on a study of the anatomical and histological features of the teeth and other oral structures of the oral cavity. Includes terminology, anatomical landmarks, and tooth identification. Introduces histology, the embryology of the face and oral and nasal cavities, development of the teeth, and the histological features of the various components of the teeth and surrounding structures.

## DEH 104 Dental Radiology

3 credit hours
Prerequisite: Enrollment in Dental Hygiene program Corequisite: DEH 101, 102, 103
Introduces principles of $x$-radiation production and safety factors; application and theory of properly exposing, processing, mounting and evaluating radiographs; identification of normal anatomic landmarks and pathologic conditions. Focuses on utilization of the laboratory in performing procedures necessary to produce quality radiographs.

## DEH 111 Dental and Medical Emergencies

2 credit hours
Prerequisite: Enrollment in Dental Hygiene program.
Corequisite: DEH 103
Introduces the management of emergency situations in the dental office setting. Emphasizes reduction of risk for emergencies, identification and management of anxiety, and stress recognition protocol. Provides practical skills applicable to dental hygienists and the scope of responsibility for medical emergency management as dictated by state dental practice law. Covers the basic categories of emergencies, causes and management. Includes content and use of emergency kits and oxygen support systems.

## DEH 116 Preventive Dentistry and Special Needs Patients

2 credit hours
Prerequisite: Enrollment in Dental Hygiene program Corequisite: DEH 103
Focuses on application of the basic sciences in maintaining healthy oral tissues for all patient populations. Emphasizes plaque and plaque related diseases and the basic philosophy involved in controlling and/or preventing disease. Addresses the role of the dental hygienist in etiology, epidemiology of disease, primary preventive efforts, oral health education, nutrition and dietary measures, and preventive agents.

## DEH 122 Periodontics I

2 credit hours
Prerequisite: First-semester DEH course work
Corequisite: DEH 153 and DEH 170
Introduces the principles of periodontics. Focuses on recognition of the tissues in health and disease, macro and microanatomy of the periodontium, and histopathology of periodontal diseases and other related gingival conditions. Provides the theory and discussion of periodontal assessment, etiology, epidemiology, inflammatory process/immune response, and the AAP classification system.

## DEH 126 Dental Materials

3 credit hours
Prerequisite: DEH 101, DEH 102, and DEH 103
Provides the dental hygiene student with a sound knowledge of the science of dental materials. Covers didactic and laboratory experiences and the physical properties, basic chemistry, and the clinical applications of the materials used in the practice of dentistry.

## DEH 123 Head and Neck Anatomy

1 credit hour
Prerequisite: Enrollment in Dental Hygiene program
Corequisite: First-semester DEH courses
Focuses on the study of head and neck anatomy with emphasis on the muscles of mastication, the lymphatics, the TMJ, the nerve and vascular supply, and the oral cavity.

## DEH 132 Applied Pharmacology

2 credit hours
Prerequisite: First-semester DEH courses
Corequisite: Second-semester DEH courses
Covers general pharmacology and reviews drugs that may influence the management of dental hygiene patients. Enables the student to develop sufficient knowledge of pharmacology to permit safe and effective medical evaluation of patients for dental hygiene treatment.

## DEH 133 Local Anesthesia

## 2 credit hours

Prerequisites: First-year DEH courses
Corequisites: DEH 103, DEH 111, DEH 123, DEH 132 and DEH 170 Provides a working knowledge of the theory and practice of local anesthesia as applied to the practice of dentistry/dental hygiene. Emphasizes mastery of the armamentarium and techniques of regional anesthesia. Covers the knowledge and skills necessary to administer local anesthetics proficiently and safely.

## DEH 134 Advanced Clinical Skills

1 credit hour
Prerequisite: Successful completion of first year Dental
Hygiene courses
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 138 Nitrous Oxide/Oxygen Sedation

1 credit hour
Prerequisites: DEH 101, DEH 102, DEH 103, DEH 111, DEH
132, DEH 153 and DEH 170
Provides a working knowledge of the latest equipment and methods of nitrous oxide/oxygen sedation administration in the dental office.

## DEH 153 Clinical Theory of Dental Hygiene I

2 credit hours
Prerequisites: First-semester DEH courses
Corequisite: DEH 170
Builds on the broad theoretical basis provided in DEH 101 and DEH 102. Focuses on enhancing patient assessment skills, instrumentation and additional information on preventative and prophylactic clinical procedures.

## DEH 170 Clinical Practice of Dental Hygiene I

## 4 credit hours

Prerequisite: DEH 101, DEH 102, DEH 103, and DEH 104 Corequisite: DEH 153
Provides clinical experience in patient skills assessment, instrumentation and additional preventative and prophylactic clinical procedures.

## DEH 171 Clinical Practice of Dental Hygiene I-A

1 credit hour
Prerequisite: DEH 101, DEH 102, DEH 103, DEH 104, DEH 123, DEH 153 and DEH 170
Continues patient care sessions for the performance of traditional dental hygiene treatment. Enables the student to provide treatment to periodontally in-
volved patients utilizing advanced instrumentation and power scaling.

## DEH 175 Special Topics

1-12 credit hours
Exploration of current topics, issues and activities related to one or more aspects of the named discipline.

## DEH 202 Applied Nutrition in Dentistry

2 credit hours
Corequisite: DEH 270
Gives students a fundamental understanding of general nutrition with an emphasis on the interrelationship between nutrition and dental health. Focuses on recognizing nutritional deficiencies and how to conduct and evaluate nutritional surveys on patients.

## DEH 204 Community Dental Health I

2 credit hours
Prerequisite: First-semester DEH courses
Corequisite: Third-semester DEH courses
Provides instruction in the concepts, methods and issues of dental public health. Emphasis is placed on evidence-based criteria for effective promotion and prevention of dental disease in the public health setting. Concepts of dental health education and program planning in the community setting are reinforced through case based materials, including methods of assessment, planning, implementation and evaluation of effectiveness. Course activities will reinforce skills in speaking and writing effectively in preparation for the subsequent community dental health field experience course.

## DEH 213 General and Oral Pathology

3 credit hours
Prerequisite: DEH 101, DEH 102, DEH 103, DEH 104, DEH 123
Corequisite: Second-semester DEH courses
Focuses on the fundamentals of general pathology and the disease process. Covers oral pathology with emphasis on recognition and identification of pathologic conditions that most frequently occur around the oral cavity. Helps students identify appropriate referral mechanisms to render a definitive diagnosis.

## DEH 221 Ethics and Practice Management

2 credit hours
Prerequisite:Third-semester DEH courses
Corequisite: Fourth-semester DEH courses
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 selfexploration in development of personal and professional goals. Examines professional ethics, legal issues, and the relationship to the licensed practice of dental hygiene.

## DEH 225 Community Dental Health II: Field Experience <br> 1 credit hour <br> Prerequisite: All 100 level courses, DEH 204, 242 <br> Corequisite: Fourth-semester DEH courses

Provides practical application of community dental health theory and opportunities to conduct needs assessments on a variety of populations. Emphasiz-
es meeting the educational needs of specific populations through program planning, implementation and evaluation. Incorporates supervised field experiences in low-income, school and other public health facilities, as well as private health and education oriented organizations.

## DEH 242 Periodontics II

2 credit hours
Prerequisite: All DEH 100 Level
Corequisite: DEH 270
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 266 National Board Review (elective)

## 2 credit hours

Prerequisite: Third-semester DEH course work
Corequisite: Fourth-semester DEH course work
Provides formal review sessions for second year dental hygiene students preparing to sit for the National Board Examination in March.

## DEH 268 Clinical Theory of Dental Hygiene II

## 2 credit hours

Prerequisite: All 100 Level DEH courses
Corequisite: DEH 270
Provides the didactic theory for clinical practice of dental hygiene skills at the beginning of the second year of dental hygiene curriculum. Builds on clinic theory from first year curriculum to provide the knowledge base needed for treatment of patients with more advanced periodontal disease and medical/health factors. Focuses on: periodontal charting and documentation, interpretation of periodontal factors on radiographs, use of treatment planning in the dental hygiene process of care, legal parameters of record keeping and informed consent, use of oral photography, application of sealants, treatment of dental hypersensitivity, application of chemotherapeutics and professional oral irrigation, application of ergonomics in dentistry, clinical dental hygiene treatment considerations for patients with history of cardiac complications and diabetes.

## DEH 270 Clinical Practice of Dental Hygiene II

## 6 credit hours

Prerequisites: All 1st year DEH courses as well as DEH 171
Corequisites: DEH 268, DEH 242
Covers patient care sessions for the performance of traditional dental hygiene treatment. Continues and expands periodontal patient care and special patient care sessions. Focuses on clinical competence in margination and polishing of restorations, nutrition counseling, oral irrigation, chemotherapeutics and OSHA compliance.

## DEH 271 Clinical Practice of Dental Hygiene III

7 credit hours
Prerequisite: DEH 101, DEH 102, DEH 103, DEH 104, DEH 111, DEH 116, DEH 122, DEH 123, DEH 126, DEH 132, DEH 153, DEH
170, DEH 202, DEH 204, DEH 213, DEH 242, DEH 270
Corequisite: DEH 285
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 extra-mural clinical sites for additional practice.

## DEH 282 Periodontics III

1 credit hour
Prerequisite: Third-semester DEH course work
Corequisite: Fourth-semester DEH course work
Provides comprehensive dental hygiene clinical management techniques for periodontal patients supported by application of basic clinical research sciences. Focus is on the "therapy" component of periodontics including instructional sessions covering the general principles of periodontal surgery, the surgical management of soft tissues and osseous defects, wound healing, implants, and the role of occlusion in periodontal therapy.

## DEH 285 Clinical Theory of Dental Hygiene III

 2 credit hoursPrerequisite: All 100 Level DEH courses, DEH 268 and DEH 270 Corequisite: DEH 271
Course Note: Student must receive a B or better in this course.
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.

## ECE - EARLY CHILDHOOD EDUCATION COURSES

## ECE 101 Introduction to Early Childhood

 Education3 credit hours
Provides an introduction to Early Childhood Education. Includes the eight key areas of professional knowledge: Child Growth and Development, Health, Nutrition and Safety, Developmentally Appropriate Practices, Guidance, Family and Community Relationships, Diversity, Professionalism, Administration and Supervision. Focuses on ages birth through age eight.

## ECE 102 Introduction to Early Childhood Lab Techniques <br> 3 credit hours <br> Corequisite: ECE 101

Focuses on a classroom seminar and placement in a child care setting. The supervised placement provides the student with the opportunity to observe children, to practice appropriate interactions, and to develop effective guidance and management techniques. Addresses ages birth through age eight.

## ECE 103 Guidance Strategies for Young Children

 3 credit hoursExplores guidance theories, applications, goals, techniques and factors that influence expectations, classroom management issues, and pro-social skills. Addresses ages birth through age eight.

## ECE 108 The Assessment Process in Early Childhood Education

1 credit hour
Focuses on exposing students to a wide variety of screening tools and evaluations appropriate for children birth to eight years of age. Enables students to gain beginning knowledge in the selection of developmental screening tools and evaluations important to the IFSP/IEP.

## ECE 111 Infant and Toddler Theory and Practice

3 credit hours
Prerequisite: Grade of C or better in ENG 060 or English assessment score of 70 or better
Presents an overview of theories, applications (including observations), and issues pertinent to infant and toddler development in group and/or family settings. Includes state requirements for licensing, health, safety, and nutrition issues. Focuses on birth through age three.

## ECE 112 Introduction to Infant/Toddler Lab <br> Techniques

3 credits
Prerequisite: Grade of Cor better in ENG 060 or English assessment score of 70 or better and a grade of $C$ or better in ECE 111
Includes a classroom seminar and placement in an infant and/or toddler setting. The supervised placement provides the student with the opportunity to observe, to practice appropriate interactions, and to develop effective guidance and nurturing techniques with infants and/or toddlers. Addresses ages prenatal through age two.

## ECE 188 Practicum: Early Childhood Education

0-12 credit hours
Prerequisite: Grade of C or better in ENG 060 or English assessment score of 70 or better
Provides students with field experience in early childhood programs.

## ECE 205 Nutrition, Health, and Safety

 3 credit hoursPrerequisite: Grade of C or better in ENG 060, REA 060 and MAT 060 or English assessment score of 70 or better, Reading assessment score of 62 or better and Math assessment score of 45 (EA) or better
Focuses on nutrition, health, and safety as a key factor for optimal growth and development of young
children. Content includes nutrient knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities, and communication with families. Addresses ages from prenatal through age eight.

## ECE 209 Observing and Utilizing Young Children's

 Assessment Instruments1 credit hour
Prerequisite: Grade of C or better in ENG 060, REA 060 and MAT 060 or English assessment score of 70 or better, Reading assessment score of 62 or better and Math assessment score of 45 (EA) or better and ECE 101 and ECE 102 or ECE 103
Examines the current research on the continuous practice of observing children. Incorporates practice with a variety of assessment instruments currently used in Colorado ECE programs.

## ECE 220 Curriculum Development: Methods and Techniques

3 credit hours
Prerequisite: Grade of Cor better in ENG 060, REA 060 and MAT 060 or English assessment score of 70 or better, Reading assessment score of 62 or better and Math assessment score of 45 (EA) or better and ECE 101 and ECE 102, or ECE 103
Provides an overview of early childhood curriculum development. Includes processes for planning and implementing developmentally appropriate environments, materials and experiences, and quality in early childhood programs. Focuses on birth through age eight.

## ECE 226 Creativity and the Young Child

3 credit hours
Prerequisite: Grade of C or better in ENG 060, REA 060 and MAT 060 or English assessment score of 70 or better, Reading assessment score of 62 or better and Math assessment score of 45 (EA) or better
Provides an emphasis on encouraging and supporting creative self expression and problem solving skills in children. Explores creative learning theories and research. Focuses on developmentally appropriate curriculum strategies in all developmental domains. Addresses ages birth through age eight.

## ECE 228 Language and Literacy

3 credit hours
Prerequisite: Grade of Cor better in ENG 060, REA 060 and MAT 060 or English assessment score of 70 or better, Reading assessment score of 62 or better and Math assessment score of 45 (EA) or better
Presents strategies for optimum language development, literacy, social and emotional development. Supports children's language and literacy in home, classroom, and community settings. Provides appropriate teacher/child verbal interactions, classroom environments, and activities. Addresses ages birth through age eight.

## ECE 236 Child Growth/Development Laboratory

1 credit hour
Prerequisite: Grade of Cor better in ENG 060, REA 060 and
MAT 060 or English assessment score of 70 or better, Reading assessment score of 62 or better and Math assessment score of 45 (EA) or better
Corequisite: ECE 238
Covers the growth and development of the child from conception through the elementary school
years. Emphasizes physical, cognitive, language, social and emotional domains, and the concept of the whole child and how adults can provide a supportive environment. Addresses ages from prenatal through age 12.

## ECE 238 Child Growth and Development

3 credit hours
Prerequisite: Grade of Cor better in ENG 090, REA 090 and MAT 090 or English assessment score of 95 or better, Reading assessment score of 80 or better and Math assessment score of 61 (EA) or better and ECE 101 and ECE 102 or ECE 103 Corequisite: ECE 236
Covers the growth and development of the child from conception through the elementary school years. Emphasizes physical, cognitive, language, social and emotional domains, the concept of the whole child, and how adults can provide a supportive environment. Ages addressed: prenatal through age 12. (This course has an early childhood laboratory component.)

## ECE 240 Administration of Early Childhood Care and Education Programs

3 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090 or English assessment score of 95 or better, Reading assessment score of 80 or better and Math assessment score of 61 (EA) or better and ECE 101 and ECE 102 or ECE 103 Corequisite: ECE 241
Examines Colorado's licensing requirements, as well as quality standards pertaining to the operation of programs for young children. Focuses on the director's administrative skills and role as a community advocate for young children. Addresses ages birth through age 12.

## ECE 241 Administration: Human Relations for Early Childhood Education

3 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090 or English assessment score of 95 or better, Reading assessment score of 80 or better and Math assessment score of 61 (EA) or better and ECE 101 and ECE 102 or ECE 103 Corequisite: ECE 240
Focuses on the human relations component of an early childhood professional's responsibilities. Includes director-staff relationships, staff development, leadership strategies, parent-professional partnerships, and community interaction.

## ECE 256 Working with Parents, Families, and Community System

## 3 credit hours

Prerequisite: Grade of C or better in ENG 060, REA 060 and MAT 060 or English assessment score of 70 or better, Reading assessment score of 62 or better and Math assessment score of 45 (EA) or better
Examines attitudes and family values systems and how they affect parent-professional partnerships. Addresses communication, problem-solving and conflict resolution strategies. Plans effective activities and programs for parent involvement. Addresses ages birth through eight.

## ECE 260 Exceptional Child

3 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090 or English assessment score of 95 or better, Reading assessment score of 80 or better and Math assessment score of 61 (EA) or better and ECE 238
Presents an overview of critical elements related to educating young children with disabilities in the early childhood setting. Topics include the following: typical and atypical development, legal requirements, research based practices related to inclusion, and accommodations and adaptations. Student will learn how a disability will impact a young child's learning process. Focus of the course is on birth through age 8.

## ECE 275 Special Topics: General (advanced)

1-6 credit hours
Explores current topics, issues and activities related to one or more aspects of the early childhood care and education profession.

## ECE 288 Practicum: Early Childhood Education

3 credit hours
Prerequisite: Grade of Cor better in ENG 090, REA 090 and MAT 090 or English assessment score of 95 or better, Reading assessment score of 80 or better and Math assessment score of 61 (EA) or better and ECE 101, ECE 102, or ECE 103;

## Corequisite: ECE 209

Provides students with advanced field experience opportunities in early childhood education programs. Only offered in spring semester.

## ECO - ECONOMICS COURSES

ECO 201 Principles of Macroeconomics: GT-SS1 3 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090, and MAT 090, or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 61 (EA) or better
Focuses on the study of the American economy, stressing the interrelationships among household, business, and government sectors. Explores saving and investment decisions, unemployment, inflation, national income accounting, taxing and spending policies, the limits of the market and government, public choice theory, the Federal Reserve System, money and banking, and international trade. This course is one of the Statewide Guarantee Transfer courses.

## ECO 202 Principles of Microeconomics: GT-SS1

 3 credit hoursPrerequisite: Grade of C or better in ENG 090, REA 090, and MAT 090, or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 61 (EA) or better
Studies the firm, the nature of cost, and how these relate to the economy as a whole. Analyzes economic models of the consumer, perfect competition, monopoly, oligopoly and monopolistic competition. Explores economic issues including market power, population growth, positive and negative externalities, income distribution, poverty and welfare, discrimination, and international economic interdependence. This course is one of the Statewide Guaranteed Transfer courses.

## EDU-EDUCATION COURSES

## EDU 187 Cooperative Education

1-6 credit hours
Provides students an opportunity to gain practical experience in applying their occupational skills and/or to develop specific skills in a practical work setting. The instructor works with the student to select an appropriate work site, establish learning objectives, and to coordinate learning activities with the employer or work site supervisor.

## EDU 188 Practicum I

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

## EDU 221 Introduction to Education

3 credit hours
Prerequisite: Grade of Cor better in ENG 060, REA 060 and
MAT 060 or English assessment score of 70 or better, Reading assessment score of 62 or better and Math assessment score of 45 (EA) or better
Focuses on the historical, social, political, philosophical, cultural and economic forces that shape the United States public school system. Includes current issues of educational reform, technology as it relates to education and considerations related to becoming a teacher in the state of Colorado. Special interest will be paid to the topic of diversity in the K-12 school system.

## EDU 222 Effective Teaching

1 credit
Focuses on strategies for becoming an effective teacher. Topics included are: course goals and objectives, the first day, planning a lesson, higher levels of thought, test design and grading, assessment, and teaching and learning styles.

## EDU 230 Literacy Instructional Techniques

4 credit hours
Provides students with more knowledge of instructional techniques in the teaching of language, reading, and writing. Introduces students to the phases of literacy development and explores the best practices in literacy instruction for grades K-6. Accommodating the needs of learners with special needs, including learning disabilities or second language considerations, are also covered. Theory and practical classroom applications methods are emphasized.

## EDU 231 Introduction to Bilingual Education

4 credit hours
Focuses on bilingual and multicultural education with emphasis on the linguistically and culturally diverse learner. Covers historical perspectives, philosophical frameworks, legal implications, subject matter methodologies, and current issues which impact bilingual educational programs.

## EDU 232 Literacy in the Multicultural/ Multilingual Classroom <br> 3 credit hours

Introduces students to the theories, methods, and techniques for teaching reading and language to children from diverse cultural and linguistic backgrounds. Includes field experience applying coursework with children.

## EDU 233 English Language Learning (K-6)

3 credit hours
Prepares teachers who work with limited English proficient student to learn strategies to develop English language learners (ELLs) social and academic English and supports their transition to US culture and schools. This course is appropriate in a variety of program models: mainstream classrooms, self-contained ESL classrooms, and bilingual programs and may be adapted for use with preschool teachers.

## EDU 242 Expressive Arts in the Elementary Classroom

3 credit hours
Explores the integration of visual arts, music, and physical education/movement into the self-contained elementary classroom curriculum based upon the theory of multiple intelligences. Familiarizes the student with the Colorado Model Content Standards for each area, basic curriculum development, and the opportunities to practice their skills with students through field experiences.

## EDU 250 CTE in Colorado

1 credit
Prerequisite: Department Chair permission
Explores common elements of Career and Technical Education philosophy and current practices. It details the philosophy of Career and Technical Education (CTE), the federal Carl D. Perkins legislation and related guidelines for CTE, the Colorado Technical Act, national and state regulatory agencies, the CCCS program approval process, enrollment management and advising strategies, relevant local and national issues, and quality assurance principles.

## EDU 260 Adult Learning and Teaching

3 credits
Prerequisite: Department Chair permission
Examines the philosophy of community colleges and/or secondary schools and the roles and responsibilities of the faculty member within the college/school community. Introduces basic instructional theories and applications, with particular emphasis on adult learners. Includes syllabus development, learning goals and outcomes, and lesson plans. Emphasizes teaching to a diverse student body, classroom management, assessment and instructional technology.

## EDU 261 Teaching, Learning and Technology

## 3 credit hours

Prerequisite: English assessment score of 95 or better, Reading assessment score of 80 or better and Math assessment score of 85 (EA) or better, or equivalent ACT/SAT scores
Prepares students to integrate technology into their teaching curriculum. Enables the student to design educational and training materials incorporating instructional technology. Explores a variety of tech-
nologies, including the computer, Internet, multimedia, graphics, audio, and text with an emphasis on increasing learning through their use. Examines combining technology with a variety of instructional methodologies.

## EDU 289 Capstone

3 credit hours
Focuses on a demonstrated culmination of learning within a given program of study.

## EGT - ENGINEERING GRAPHICS COURSES

## EGT 103 Technical Drafting III

3 credit hours
Prerequisite: CAD 101 with a grade of $C$ or better or instructor consent
Introduces the student to industrial dimensioning practices. Enables the student to develop skills in dimensioning techniques and learn to apply the ASME Y14. 5M-1994 dimensioning standard.

## EGT 106 Introduction to Axonometric Views

 3 credit hoursPrerequisite: EGT 103 with a grade of C or better or instructor consent
Introduces the principles of pictorial practices. The class covers axonometric projection (isometric, oblique/cabinet and cavalier) and perspective drawing (one and two point perspectives).

## EGT 107 Introduction to Sections and Auxiliary Views

3 credit hours
Prerequisite: EGT 103 with a grade of $C$ or better or instructor consent
Introduces the principles of how parts are represented in 2D space by using sectional views of parts to clarify internal detail, and projection of inclined planes that need to be shown in their true shape and size.

## EGT 160 Introduction to Industrial Drafting and

 Design3 credit hours
Prerequisite: CAD 102 with a grade of $C$ or better or instructor consent
Introduces the drafting principles that are expected to be understood by drafters in both the mechanical and architectural disciplines.

## EGT 250 Advanced Industrial Drafting and Design 6 credit hours

Prerequisite: EGT 160 with a grade of C or better or Chair consent
Continues to build upon the drafting principles that are expected to be understood by drafters in both the mechanical and architectural disciplines. Enables the student to develop a broader understanding of how production documents are generated.

EGT 289 Capstone-Projects in 3D for Industrial Drafting and Design
6 credit hours
Prerequisite: EGT 250 with a grade of C or better or
Chair consent
A demonstrated culmination of learning within a given program of study.

## EMS - EMERGENCY MEDICAL SERVICES COURSES

## EMS 121 EMT Fundamentals

3 credit hours
Introduces the Emergency Medical Technician (EMT) student to prehospital emergency care. The topics included in this course are Emergency Medical Services (EMS) systems, well-being of the EMT, communications, documentation, anatomy, airway management, and patient assessment.

## EMS 122 EMT Medical Emergencies

4 credit hours
Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to effectively provide emergency care and transportation to a patient experiencing a medical emergency. This course focuses on the integration of the physical exam, medical history, and pathophysiology when assessing and treating the medical patient.

## EMS 123 EMT Trauma Emergencies

2 credit hours
Provides the Emergency Medical Technician (EMT) student with the knowledge and skills to provide appropriate emergency care and transportation of a patient who has suffered a traumatic injury. The concepts of kinematics and the biomechanics of trauma, along with pathophysiology and injury patterns will provide the student with the ability to assess and manage the trauma patient.

## EMS 124 EMT Special Considerations

2 credit hours
Provides the Emergency Medical Technician (EMT) student with the knowledge and skills required to modify the assessment, treatment, and transportation of special patient populations and patients in special circumstances. This course also provides an overview of incident command, mass casualty incidents, vehicle extrication, air medical support, hazardous materials, and terrorism.

## EMS 126 - EMT Basic Refresher

2 credit hours
Provides the student with a refresher course designed to meet the recertification requirements for the State of Colorado and/or a portion of the recertification requirements for National Registry.

## EMS 130 EMT Intravenous Therapy

2 credit hours
Prerequisite: EMT Basic Certification
Focuses on cognitive and skill practice as required by Colorado Prehospital Care program for EMT Basic level IV approval. Examines criteria, procedures and techniques for IV therapy, discusses fluid and electrolyte balance and principles and treatment for shock.

## EMS 170 EMT Basic Clinical

1 credit hour
Corequisite: EMS 125
Provides the EMT student with the clinical experience required of initial and some renewal processes.

## END-ELECTRONEURODIAGNOSTICS COURSES

## END 102 Electroencephalography (EEG)I

4 credit hours
Prerequisite: BIO 201 and BIO 202
Introduces the history and development of electroencephalography. Introduces electrode designs, application methods, patient history taking and basic principles of laboratory management. Examines the International 10-20 system of electrode management to include the practice of electrode placement during lab sessions.

## END 103 Instrumentation Principles

## 3 credit hours

Prerequisites: BIO 201 and BIO 202
Concentrates on basic EEG principles including electrode types and characteristics, application techniques, machine instrumentation, basic electronic principles, electrical theory and safety, equipment maintenance and troubleshooting. Addresses concepts of digital EEG and clinical observation.

## END 112 Electroencephalography (EEG) II

3 credit hours
Concentrates on operational Electroencephalography (EEG) techniques, including standard and intermediate electrode placements, recording procedures, activation procedures, operational controls, artifacts, visual analysis of EEG, special electrodes, ICU recording techniques, sleep recordings, ECS recordings and other non-EEG physiologic monitoring techniques. Incorporates opportunities for hands-on use of Digital EEG and monitoring techniques.

## END 115 Patient Care and Safety

3 credit hours
Emphasizes the knowledge necessary to provide safe patient care including communication skills, body mechanics, patient transfer, cultural diversity, legal considerations, ethics, universal precautions, infection control, medical emergencies, patients with special needs, an death and dying.

## END 206 Neuroanatomy and Physiology

3 credit hours
Provides in-depth knowledge of the central and peripheral nervous systems: early development and maturation, anatomy, physiology, basic neural assessments and clinical problem solving skills.

## END 207 Evoked Potential

6 credit hours
Presents the concepts, terminology and techniques of Evoked Potential (EP) technology. Provides an overview of instrumentation related to EP's. Introduces each of three modalities (VEP, BAEP, AND SEP). Incorporates practice recordings of each EP modality on classmates during lab sessions.

## END 210 Clinical Neurology

3 credit hours
Presents diseases relevant to EEG technology and electrographic clinical correlation. Includes seizure types, classifications and EEG correlation, encephalopathies, infections, psychiatric, and cerebral vascular disease, neoplasm, coma, headaches, and related clinical discical disciplines. Introduces neuropharmacology.

## END 280 Clinical Internship I

5 credit hours
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.

## END 281 Clinical Internship II

5 credit hours
Emphasizes electroencephalographic (EEG) testing at clinical sites and includes history taking, electrode application, and recording. Emphasis will be placed on development of basic techniques and interpersonal skills.

## END 282 Clinical Internship III

5 credit hours
Emphasizes evoked potential testing (EP) at clinical sites and includes evoked potential testing (EP) in the somatosensory, visual and auditory modalities. Emphasis will be placed on the observation and performance of other more specialized neurodiagnostic procedures such as intraoperative monitoring.

## ENG - ENGLISH COURSES <br> ENG 030 Basic Writing Skills

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum.
2 credit hours
Prerequisite: English assessment score of 25-49
Students are encouraged to register also for AAA 101, The Student Experience Class (1 credit hour).
Note: This course is not eligible for federal student aid. Focuses on sentence and basic paragraph structure and development. Enables the student to review and improve grammar, usage, and punctuation skills while employing critical thinking strategies and the writing process to respond to a wide variety of writing situations.

## ENG 060 Writing Fundamentals

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum.
3 credit hours
Prerequisite: ENG 030 with a grade of C or better, or English assessment score of 50-69
Students are encouraged to register for AAA 090, Academic Achievement Strategies.
Focuses on paragraph structure and development and introduces the formal essay. Enables the student to review and improve grammar, usage, and punctuation skills while employing critical thinking strategies and the writing process to respond to a wide variety of writing situations.

## ENG 077 Special Topics

0-12 credit hours
Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

## ENG 090 Basic Composition

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum.

## 3 credit hours

Prerequisite: ENG 060 or ESL 053 with a grade of C or better, or English assessment score of 70-94
Emphasizes critical thinking as students explore writing for specific purposes and audiences. Enables the student to develop skills required for college-level writing, review grammar, and reviewing paragraph structure while focusing on essay development.

## ENG 121 English Composition I: GT-C01

3 credit hours
Prerequisite: ENG 090 with a grade C or better, or English assessment score of 95 or better,or equivalent ACT/SAT scores Emphasizes the planning, writing, and revising of compositions, including the development of critical and logical thinking skills. This course includes a minimum of five compositions that stress analytical, evaluative, and persuasive/argumentative writing. This course is one of the Statewide Guaranteed Transfer courses. GT-CO1

## ENG 122 English Composition II: GT-C02

3 credit hours
Prerequisite: ENG 121 with a grade of C or better, or ACTE score of 26 or better, or SATV score of 600 or better
Expands and refines the objectives of English Composition I. Emphasizes critical/logical thinking and reading, problem definition, research strategies, and writing analytical, evaluative and/or persuasive papers that incorporate research. This course is one of the Statewide Guaranteed Transfer courses. GT-CO2

## ENG 131 Technical Writing I

3 credit hours
Prerequisite: ENG 090 with a grade C or better, or English
assessment score of 95 or better, or equivalent ACT/SAT scores Develops skills one can apply to a variety of technical documents. Focuses on principles for organizing, writing, and revising clear, readable documents for industry, business, and government.

## ENG 175 Special Topics

0-12 credit hours
Prerequisite: Instructor consent and ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## ENG 201 English Comp. III: Writing for Public

## Discourse: GT-C03

3 credit hours
Prerequisite: ENG 122 with a grade of C or better, or instructor consent
Provides students with skills necessary to enter into higher-level undergraduate academic discourse of professional workplace writing. ENG 201 extends students' rhetorical knowledge and develops criti-
cal reading, thinking and writing strategies in multiple specialized areas of discourse beyond what they encounter in ENG 122. In ENG 201, students deepen their rhetorical and writing skills by learning to analyze, synthesize, summarize complex texts and incorporate this information into specific writing conventions for a defined discipline. As a more advanced composition course, ENG 201 provides interested students with the opportunity to continue their exploration of expository writing with the added benefit of learning to write for distinct audiences (format, language, level of specificity, length, and documentation style). Students will also learn effective editing and revising techniques, discipline-specific writing strategies, and how to extend their mastery of rhetorical strategies. While ENG 201 may be taught with the focus in a variety of disciplines (science writing, gender studies, literary criticism, writing in the humanities, business writing, political geography, philosophy, and so on), every discipline will allow students the opportunity to learn how to communicate with specialized audiences and adapt content to the needs of varying rhetorical situations. The course is one of the Statewide Guaranteed Transfer courses. GT-CO3

## ENG 221 Creative Writing I

3 credit hours
Prerequisite: ENG 090 with a grade C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Teaches techniques for creative writing. Explores imaginative uses of language through creative genres (fiction, poetry, literary nonfiction) with emphasis on the student's own unique style, subject matter and needs.

## ENG 222 Creative Writing II

3 credit hours
Prerequisite: ENG 221 with a grade of C or better, or instructor consent
Provides continued development of written expression in such forms as poetry, fiction, and/or nonfiction writing.

## ENG 226 Fiction Writing

3 credit hours
Prerequisite: ENG 221 with a grade of Cor better, or instructor consent
Teaches techniques for creating fiction, including the study and appreciation of the language and forms of the short story. Provides continued development of written expression in such forms as poetry, fiction, and/or nonfiction writing.

## ENG 227 Poetry Writing

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Teaches techniques for creating poems, including study of figurative language, forms, and sound patterns of poetry.

## ENG 228 Writing for the Graphic Novel

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces story analysis and writing concepts used in writing for the graphic novel. Students ex-
plore the graphic novel as a vehicle for a unique, personal venue for written expression. Students explore the history and universal themes of the graphic novel as well as examine the principles of composition, different writing styles and processes used in the development of the graphic novel. The application of writing styles, script development and revision processes necessary for the creation of an individual graphic work and thorough examination of course material in terms of writing style, process considerations and written themes are the primary focus. Students create outlines, scripts and a final written work for a graphic novel, focusing on unity of style and techniques for authoring appropriate to story lines.

## ENG 230 Creative Nonfiction

3 credit hours
Prerequisite: ENG 221 with a grade of C or better, or instructor consent
Teaches students to incorporate literary techniques into factual writing. Enables the student to survey a wide range of readings and analyze form and content. Includes critical review, biographical profiles, travel writing and memoirs. Provides the opportunity for students to write and review their own nonfiction in a supportive, constructive setting.

## ENG 236 Writing the Film I

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT score Guides students in the development of a treatment, outline and opening act for a feature film script, focusing on specific script format, ideation, film genre conceptualization, plot structure and character development. Students complete a 30-minute spec script, as well as a full treatment and outline for a feature film.

## ENG 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent and ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## ENG 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## ENT - ENGINEERING TECHNOLOGY COURSES

## ENT 275 Special Topics

3 credit hours
Allows flexible utilization and covers specific topics and current issues in the Engineering Technology field. Includes "as-needed" for credit appropriate to the topic(s) selected. Each individual offering of this course includes a complete description of the topic(s) selected in a course syllabus unique to that particular offering.

## ENV - ENVIRONMENTAL SCIENCE COURSES

## ENV 101 Environmental Science: GT-SC1

4 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090 and
MAT 090 or English assessment score of 95 or better, Reading assessment score of 80 or better and Math assessment score of 61 or better
Provides an introduction to the basic concepts of ecology and the relationship between environmental problems and biological systems. Includes interdisciplinary discussions on biology, chemistry, geology, energy, natural resources, pollution, and environmental protection. Using a holistic approach, students will study how the foundations of natural sciences interconnect with the environment. This course includes laboratory experience.

## ESL - ENGLISH AS A SECOND LANGUAGE COURSES

## ESL 001 Spelling

3 credit hours
Prerequisite: ESL 041 or ESL 071 with a grade of C or better or LOEP Reading Score of 46+
Introduces ESL students to techniques that increase basic spelling skills in English. Study includes structured word analysis, rule analysis and spelling strategies for words not governed by rules.

## ESL 011 Basic Pronunciation

3 credit hours
Prerequisite: ESL 041 or ESL 071 with a grade of C or better or LOEP Reading assessment score of 46+
Provides listening and speaking activities that help students recognize and produce English vowel and consonant sounds and common stress and intonation patterns.

## ESL 012 Intermediate Pronunciation

3 credit hours
Prerequisite: ESL 041 or ESL 071 with a grade of C or better or LOEP Reading assessment score of 46+
Provides listening, speaking and reading activities that help students recognize and produce a variety of stress and intonation patterns in English. Helps ESL students to produce problematic English sounds.

## ESL 021 Basic Grammar

3 credit hours
Prerequisite: ESL Grammar assessment score of 16-30
Assists the student in mastering basic structures in English grammar through oral and written practice.

## ESL 022 Intermediate Grammar

3 credit hours
Prerequisite: ESL 021 or ESL 071 with a grade of C or better or ESL Grammar assessment score of 31-45
Reviews basic grammar and introduces intermediate structures. Provides integrated practice through a variety of oral and written exercises.

## ESL 023 Advanced Grammar

3 credit hours
Prerequisite: ESL 022 or ESL 072 with a grade of C or better or ESL Grammar assessment score of 46-65
Reviews intermediate grammar. Introduces advanced structures with increased emphasis on written communication.

## ESL 031 Basic Conversation

3 credit hours
Prerequisite: LOEP Listening assessment score of 35-49
Focuses on listening and speaking activities that help the student communicate more competently. Provides practice with pronunciation, vocabulary, and basic grammatical patterns.

## ESL 032 Intermediate Conversation

3 credit hours
Prerequisite: ESL 031 or ESL 071 with a grade of Cor better or LOEP Listening assessment score of 50-69
Teaches listening, pronunciation and conversation skills. Increases speed and accuracy in speaking through free and guided conversational practice.

## ESL 033 Advanced Conversation

3 credit hours
Prerequisite: ESL 032 or ESL 072 with a grade of C or better or LOEP Listening assessment score of 70-89
Provides students with opportunities to increase the listening and speaking skills required in academic and work situations. Emphasizes vocabulary building, listening, and note-taking strategies, as well as questioning, discussion and presentation skills.

## ESL 041 Basic Reading

3 credit hours
Prerequisite: LOEP Reading Assessment Score of 25-45
Improves comprehension of simple written texts through vocabulary building and reading strategies.

## ESL 042 Intermediate Reading

3 credit hours
Prerequisite: ESL 041 or ESL 071 with a grade of C or better or LOEP Reading assessment score of 46-70
Helps the student read more quickly and accurately and understand a variety of intermediate-level reading material.

## ESL 043 Advanced Reading

3 credit hours
Prerequisite: ESL 042 or ESL 072 with a grade of Cor better or LOEP Reading assessment score of 71-95
Prepares the student for academic reading assignments. Assists the student to read more accurately and critically through the development of vocabulary knowledge and reading skills. Introduces research skills.

## ESL 052 Intermediate Composition 3 credit hours

Prerequisite: ESL 022 or ESL 072 with a grade of C or better or ESL Grammar assessment score of 46-65
Corequisite: ESL 023 (if not completed as a prerequisite) Introduces the fundamentals of paragraph organization and development. Assists the student in developing sentence variety and grammatical competency within well-organized paragraphs.

## ESL 053 Advanced Composition

3 credit hours
Prerequisite: ESL 052 with a grade of C or better or Writing Placement Test of ESL 053
Reviews paragraph organization and develops the skill of writing essays using selected rhetorical modes. Emphasizes accurate use of advanced
grammatical structures. Includes summarizing, paraphrasing and research writing.

## ESL 055 Computer Basics for ESL Students

 2 credit hoursPrerequisite: ESL 041 or ESL 071 with a grade of C or better or LOEP Reading assessment score of 46+
Introduces the basic skills for computer use, including word processing, text entry, document appearance, editing, spelling, and printing.

## ESL 071 Basic Language Skills

9 credit hours
Prerequisite: LOEP Listening assessment score of $35-49$ or
LOEP Reading assessment score of $25-45$
Develops and strengthens the reading, writing, listening, speaking and grammar production skills of non-native English speakers whose assessment scores reflect a readiness to benefit from basic-level ESL courses.

## ESL 072 Intermediate Language Skills

9 credit hours
Prerequisite: ESL 021 or ESL 041 or ESL 071 with a C or better or LOEP Reading Assessment Score of 46+ and LOEP Listening of 50+
Provides intermediate and high-intermediate English language students with intensive instruction and practice in reading, writing and speaking English. Teaches intermediate and advanced-level grammar concepts. Prepares students for further academic and vocational study.

## FIN - FINANCE COURSE <br> \section*{FIN 105 Principles of Banking}

3 credit hours
Explores nearly every aspect of banking as a solid foundation for any career in the financial services industry. Just as the industry is constantly changing, this course is continually being revised to provide specific up-to-date information.

## FRE - FRENCH COURSES <br> FRE 101 Conversational French I

3 credit hours
Introduces beginning students to conversational French and focuses on understanding and speaking French. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

## FRE 102 Conversational French II

3 credit hours
Prerequisite: FRE 101 with a grade of Cor better
Continues the sequence for beginning students who wish to understand and speak French. Covers basic conversational patterns, expressions, and grammar.

## FRE 111 French Language I

5 credit hours
Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

## FRE 112 French Language II

5 credit hours
Prerequisite: FRE 111 with a grade of C or better, or instructor consent
Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

## FRE 211 French Language III: GT-AH4

3 credit hours
Prerequisite: FRE 112 with a grade of C or better, or instructor consent
Continues French I and II in the development of increased functional proficiency in listening, speaking, reading and writing the French language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors.This course is one of the Statewide Guaranteed Transfer courses. GT-AH4

## FRE 212 French Language IV: GT-AH4

3 credit hours
Prerequisite: FRE 211 with a grade of C or better, or instructor consent
Continues French I, II, and III in the development of increased functional proficiency in listening, speaking and writing the French language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of the Statewide Guaranteed Transfer courses. GT-AH4

## FRE 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## FRE 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## GEO - GEOGRAPHY COURSES <br> GE0 105 World Regional Geography: GT-SS2

3 credit hours
Prerequisite: Grade of C or better in ENG 090
Facilitates an understanding of spatial relationships between and among the geographic regions of the world. Includes demographic and cultural (political, economic, and historic) forces related to the physical environments of selected regions. Focuses on analysis of interrelationships between developed and developing regions, and the interactions between human societies and natural environments. This course is one of the Statewide Guaranteed Transfer courses.

## GEO 107 Physical Geography

3 credit hours
Prerequisite: Grade of C or better in ENG 090
Focuses on the study of the spatial relationship be-
tween humans and the natural environment. Covers five main themes: the atmosphere (weather and climate); the hydrosphere (water bodies and rivers); the lithosphere (Earth's crust and landforms); the biosphere (soil, plant, and animal relationships); and the impact of the human population on these environmental factors. Recommended for students interested in environmental studies, earth science, and geography.

## GER - GERMAN COURSES <br> GER 101 Conversational German I

3 credit hours
Introduces beginning students to conversational German and focuses on understanding and speaking German. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

## GER 102 Conversational German II

3 credit hours
Prerequisite: GER 101 with a grade of C or better
Continues the sequence for students who wish to understand and speak German. Covers basic patterns, expressions, and grammar.

## GER 111 German Language 1

5 credit hours
Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

## GER 112 German Language II

5 credit hours
Prerequisite: GER 111 with a grade of C or better
Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

## GER 211 German Language III: GT-AH4 <br> 3 credit hours

Prerequisite: GER 112 with a grade of $C$ or better Continues German Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the German language. Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of the Statewide Guaranteed Transfer courses. GT-AH4

## GER 212 German Language IV: GT-AH4

3 credit hours
Prerequisite: GER 211 with a grade of $C$ or better
Continues German Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the German language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of the Statewide Guaranteed Transfer courses. GT-AH4

## GER 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## GER 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor

## GEY - GEOLOGY COURSES <br> GEY 111 Physical Geology: GT-SC1

4 credit hours
Prerequisite: Grade of C or better in ENG 090 and REA 090 or English assessment score of 95 or better and Reading assessment score of 80 or better, or equivalent ACT/SAT scores Studies the materials of the earth, its structure, surface features and the geologic processes involved in its development. This course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## GEY 112 Historical Geology: GT-SC1

4 credit hours
Prerequisite: Grade of C or better in GEY 111
Studies the physical and biological development of the earth through the vast span of geologic time. Emphasizes the investigation and interpretation of sedimentary rocks, the record of ancient environments, fossil life forms, and physical events, all within the framework of shifting crustal plates. Course includes laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## GRAPHIC DESIGN COURSES

See MGD — Multimedia Graphic Design

## HIS - HISTORY COURSES

HIS 101 Western Civ: Antiquity-1650: GT-HI1 3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from the prehistoric era to 1650. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 102 Western Civ.: 1650-Present: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores a number of events, peoples, groups, ideas, institutions, and trends that have shaped Western Civilization from 1650 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 111 The World: Antiquity-1500: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores a number of peoples, groups, ideas, institutions, and trends that have shaped World History from the prehistoric era to 1500 . Reflects the multiple perspectives of gender, class, religion, and ethnic groups in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders to provide a better appreciation for different cultures. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline. The course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 112 The World: 1500-Present: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores a number of peoples, groups, ideas, institutions, and trends that have shaped World History from 1500 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders to provide a better appreciation for different cultures. Focuses on developing, practicing, and strengthening the skills historians use whole constructing knowledge in this discipline. This is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 175 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Focuses on the exploration of current topics, issues and activities related to one or more aspects of history.

## HIS 201 US History to Reconstruction: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores events, trends, peoples, groups, cultures, ideas, and institutions in North America and United States history, including the multiple perspectives of gender, class, and ethnicity, between the period when Native American Indians were the sole inhabitants of North America, and the American Civil War. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 202 US History Since Civil War: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores events, trends, peoples, groups, cultures, ideas, and institutions in United States History, including the multiple perspectives of gender, class, and ethnicity, between the period of the American Civil War and the present. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 203 Civil War Era in American History

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores the causes, course, and consequences of the American Civil War, from the Colonial period to the 21st Century, in order to understand the multiple meanings of a transforming event in American history. Students will explore the meanings of the war as defined in many ways: national, sectional, racial, gender, constitutional, individual, social, intellectual, or moral. Students will closely examine four broad themes: the crisis of union and disunion in an expanding republic; slavery, race, and emancipation as national problem, personal experience, and social process; the experience of modern, total war for individuals and society; and the political and social challenges of Reconstruction.

## HIS 205 Women in World History

## 3 credit hours

Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines the roles, experiences, and contributions of women in world history and explores ways in which women's history modifies the traditional interpretations of historical events.

## HIS 225 Colorado History: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Presents the story of the people, society, and cultures of Colorado from its earliest Native Americans, through the Spanish influx, the explorers, the fur traders and mountain men, the gold rush, railroad builders, the cattlemen and farmers, the silver boom, the tourists, and the modern state. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 236 US History Since 1945: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on the major political, economic, social, and cultural developments that have shaped modern America from 1945 to the present. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 243 History of Modern China: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores This course traces the political, ideological, economic, religious, social, and cultural developments of modern China from the Qing dynasty through the political and economic revolutions of the 20th century. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 244 History of Latin America: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on the major political, economic, social, and cultural influences that have shaped Latin

America from pre-European conquest to the present. Emphasizes the early history of Latin America but connects it to the present. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 247 20th Century World History: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Investigates the major political, social, and economic developments, international relationships, scientific breakthroughs, and cultural trends that have shaped the various global regions and nationstates from 1900 to the present. Emphasizes the interactions of global regions and nation-states. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 249 History of Islamic Civilization: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Surveys the tenets of Islam and the political, social and cultural history of the civilizations which embraced it from the 6th century to the modern day. Focuses on the diversity and dynamism of Islamic civilizations through time by looking at legal systems, scientific and artistic accomplishments, philosophical heterogenereity and political developments. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 255 The Middle Ages: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on political, social, cultural, economic and intellectual developments in Europe, Byzantium and the Islamic world from the collapse of Rome through the Renaissance, approximately A.D. 4001400. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 260 US Foreign Relations History: GT-HI1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides an overview of the history of United States foreign relations from the colonial era to the present and includes the pertinent political, military, economic, diplomatic, social, religious, ideological and cultural topics. At various points, issues such as race, class, gender, immigration, expansion, and the environment will be covered. This course also focuses on developing, practicing and strengthening the skills historians use while constructing knowledge in the discipline. This course is one of the Statewide Guaranteed Transfer courses. GT-HI1

## HIS 275 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Focuses on the exploration of current topics, issues and activities related to one or more aspects of history.

## HIS 261 History of the American Presidency

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines the growth and development of the U.S. presidency from the origins of the office until the present day. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

## HIS 285 Independent Study

$0-12$ credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Incorporates structured and guided, individualized research that is organized and tailored around the interests and needs of the individual student.

## HPR - HEALTH PROFESSIONS COURSES

## HPR 101 Customer Service in Healthcare

## 2 credit hours

Introduces students to customer service theory and techniques specifically in the healthcare arena. This course will discuss therapeutic communication, conflict resolution and negotiation, as well as employee/employer relations. Exploration of diverse populations and cultural sensitivity will be addressed.

## HPR 102 CPR for Professionals

## 0.5 credit hours

Meets the requirements for American Red Cross Professional Rescuer CPR or American Heart Association Basic Life Support for those who work in Emergency Services, Health Care and other professional areas. Material presented in the course is basic patient assessment, basic airway management, rescue breathing, AED use and CPR for infant, children and adult patients.

## HPR 104 Health Career Options

1 credit hour
Discusses current market trends in the medical profession, professional opportunities, continuing education, and professional affiliations. Discussions regarding resumes, portfolios, letters of inquiry, and interviewing techniques, as well as job search information are provided. This course is primarily informational and provides information to the student about aspect of career choices.

## HPR 106 Law and Ethics for Health Professions

2 credit hours
Introduces student to the study and application medico-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions

## HPR 108 Dietary Nutrition

1 credit hour
Studies the basic principles in clinical practice involved in the assistance of health care. The course will cover factors which influence the nutritional status of individuals, methods of nutritional assessment and support, and diet modification for specific disease states.

## HPR 146 Relation Theory

2 credit hours
Exposure to attitudes, behaviors and skills related to health care such as: teamwork, gender issues, working relationships, workplace success, computers in healthcare and community involvement.

## HPR 178 Seminar: Introduction to Medical Terminology

1-4 credit hours
Introduces the student to the structure of medical terms with emphasis on using and combining the most common prefixes, roots and suffixes. Includes terms related to major body systems, oncology, psychiatry, as well as clinical laboratory and diagnostic procedures and imaging. Class structure provides accepted pronunciation of terms and relative use in the healthcare setting.

## HPR 190 Basic EKG Interpretation

2 credit hours
Provides instruction for interpretation of EKG strips, anatomy and physiology of the heart, using threelead monitoring as a guide. Twelve-lead EKG may be discussed.

## HPR 208 Advanced Medical Terminology

2 credit hours
Continues from a beginning medical terminology course for the student with emphasis on combining complex prefixes, roots and suffixes. Includes pathophysiology for major body systems. Includes terms related to diagnostic tools per body systems, as well as commonly used medical abbreviations.

## HSE - HUMAN SERVICES COURSES

## HSE 105 Introduction to Social Welfare

3 credit hours
Prerequisite: ENG 090 with a grade of Cor better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Course Note: Offered in fall semester only
Examines the historical and philosophical background of statutes, ideologies, political process, policy making, decision rules and influential leaders who have had an impact on shaping the social welfare institutions in the United States.

## HSE 106 Survey of Human Services

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides a philosophical, political, statutory and contemporary overview of the role, values, knowledge and intervention strategies encountered by human service professionals in addressing social problems.

## HSE 107 Interviewing Principles and Practices

 3 credit hoursPrerequisite: HSE 106 with a grade of C or better, or HSE 106 as a corequisite
Corequisite: HSE 108
Provides a beginning level of information on theoretical concepts, primary principles, strategies and interventions implemented in the practice and delivery of human services to individuals and families using the human services interview.

## HSE 108 Introduction to Therapeutic Systems

3 credit hours
Prerequisite: HSE 106 with a grade of C or better, or HSE 106 as a corequisite
Corequisite: HSE 107
Introduces basic concept of major therapeutic systems, including backgrounds, developmental theories and practices of specific systems from psychoanalysis to reality therapy.

## HSE 109 Social Issues in Human Services

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores. Course Note: Offered in fall semester only
Provides an analytical overview of the social functions of human services. Examines the welfare system from various political perspectives. Presents idealism and pragmatism of the present state of human services and trends for the future.

## HSE 188 Human Services Practicum I

4 credit hours
Prerequisite: HSE 107 and HSE 108 with a grade of C or better Provides experience in various service agencies to familiarize students with agency work. Emphasizes developing observational skills, individual growth in self-awareness, interviewing skills, introduction to agencies and client systems. A weekly classroom seminar complements the agency experience.

## HSE 205 Human Services for Groups

3 credit hours
Prerequisite: HSE 107 and HSE 108 with a grade of C or better Introduces the concepts, principles, goals and skills of group work as a method of providing human services. Emphasis is on basic practice skills and intervention techniques.

## HSE 206 Human Services for Families

3 credit hours
Prerequisite: HSE 107 and HSE 108 with a grade of C or better Introduces family theory and practice. Covers such topics as systems theory, communications theories, structure therapists, developmental theory and future directions in family therapy research.

## HSE 207 Community Organization

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Course Note: Offered spring semester only
Examines the theory and practice of organizing communities, neighborhoods, committees and advisory boards as they relate to the social services delivery system.

## HSE 208 Social Welfare Policy

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Course Note: Offered spring semester only
Presents models for social policy analysis, program planning and evaluation. Applies models to relevant social welfare issues.

## HSE 209 Crisis Theory and Intervention

3 credit hours
Prerequisite: HSE 107 and HSE 108 with a grade of C or better Introduces basic theories and principles of crisis intervention from a historical and practical orientation.

## HSE 275 Special Topics

0-12 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores The course provides students with a vehicle to pursue in depth exploration of special topics of interest.

## HSE 285 Independent Study

0-12 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides students the opportunity to pursue advanced topics and projects in the human services discipline utilizing standard research strategies that may include field studies.

## HSE 288 Human Services Practicum II

4 credit hours
Prerequisite: HSE 188 with a grade of C or better
Provides placement in a service agency where the student applies the values, concepts, and skills gained in theory courses to the actual process of helping people. Emphasis is on sharpening skills and knowledge, use of self in the helping process, understanding systems and use of community resources.

## HSE 289 Human Services Practicum III Capstone

7 credit hours
Prerequisite: HSE 288 with a grade of C or better
Provides practical experience working in an approved social service agency. The student participates in various service agency functions as a group member and leader, and further develops skills and knowledge in the use of self and systems in the helping process.

## HUM - HUMANITIES COURSES

## HUM 115 World Mythology: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces students to the mythologies of various cultures. Common themes are illustrated and an interdisciplinary approach is used incorporating some of the following: religion, philosophy, art history, theater, literature, music, cultural studies, and history. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## HUM 121 Early Civilizations: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces students to the history of ideas that have defined cultures through a study of the visual arts, literature, drama, music and philosophy. It emphasizes connections among the arts, values, and diverse cultures, including European and nonEuropean, from the Ancient world to 1000 C.E. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## HUM 122 Medieval to Modern: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines written texts, visual arts and musical compositions to analyze and reflect the evolution and confluence of cultures in Europe, Asia and the Americas from 800 C. E. to 1750 C. E. Any two of the three Survey of Humanities courses equal a sequence. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## HUM 123 Modern World: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines the cultures of the 17th through the 20th centuries by focusing on the interrelationships of the arts, ideas, and history. Considers the influences of industrialism, scientific development and nonEuropean peoples. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## HUM 175 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
$\overline{\text { Provides students with a vehicle to pursue in depth }}$ exploration of special topics of interest.

## HUM 220 The Cultural History of Rock and Roll

 3 credit hoursPrerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Teaches students to read about, write about, and discuss the social history of that very broad term, "rock and roll". We explore important themes in American (and British) social and cultural history through the study of popular music, as well as to examine how popular and critical tastes are reflections of artistic, cultural, sexual, economic and ideological sensibilities at the time of its production. In order to fully understand what the culture of rock is all about, we critically analyze the influence of technology, ideology, class, gender, and race on various genres of music; jazz, country, rhythm and blues, techno, heavy metal, and hip hop. We also examine how rock and roll influenced (and is influenced by) other arts, particularly literature and film. Emphasis is placed on understanding the social and cultural contexts of the various music forms rather than on a rigorous understanding of the musical forms themselves.

## HUM 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
$\overline{\text { Provides students with a vehicle to pursue in depth }}$ exploration of special topics of interest.

## HUM 285 Independent Study

$0-12$ credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor

## HWE - HEALTH \& WELLNESS COURSES

HWE 100 Human Nutrition
3 credit hours
Prerequisite: Grade of C or better in ENG 090, REA 090, and MAT 060, or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 45 or better
Introduces basic principles of nutrition with emphasis on personal nutrition. Satisfies nutrition requirement of students entering health care professions.

## INFORMATION TECHNOLOGY COURSES

See CIS—Computer Information Systems
See CNG—Computer Networking
See CSC-Computer Science
See CWB—Computer Web Base

## ITA - ITALIAN COURSES

## ITA 101 Conversational Italian I

3 credit hours
Provides the first course in a sequence for beginning students who wish to understand and speak Italian. The material includes basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

## ITA 102 Conversational Italian II

3 credit hours
Prerequisite: ITA 101 with a grade of $C$ or better
Provides the second course in a sequence for students who wish to understand and speak Italian. The material continues to cover basic conversational patterns, expressions, and grammar.

## ITA 111 Italian Language I

5 credit hours
Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

## ITA 112 Italian Language II

5 credit hours
Prerequisite: ITA 111 with a grade of $C$ or better
Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

## ITA 211 Italian Language III: GT-AH4

3 credit hours
Prerequisite: ITA 112 with a grade of C or better
Continues Italian Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Italian language.
Note: The order of topics and the methodology will vary according to individual texts and instructors. This course is one of the Statewide Guaranteed Transfer courses. GT-AH4

## ITA 212 Italian Language IV: GT-AH4

3 credit hours
Prerequisite: ITA 211 with a grade of C or better
Continues Italian Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the Italian language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of the Statewide Guaranteed Transfer courses. GT-AH4

## ITA 275 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## ITA 285 Independent Study

0-12 credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## JOU - JOURNALISM COURSES

## JOU 102 Introduction to Editing for Media

3 credit hours
Prerequisite: ENG 090 with a grade of C or better or English
assessment score of 95 or better, or equivalent ACT/SAT scores
Focuses on the process of editing articles for publication in newspapers, newsletters, magazines and the Internet. The Associated Press style is emphasized.

## JOU 105 Introduction to Mass Media: GT-SS3

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Places the mass media in a historical and cultural perspective, considering the validity, integrity and influence of the media in a democracy. This course is one of the Statewide Guaranteed Transfer courses.

## JOU 106 Fundamentals of Reporting

## 3 credit hours

Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces newswriting, reporting and interviewing with an emphasis on clarity, accuracy, completeness, timeliness and fairness.

## JOU 121 Photojournalism

## 3 credit hours

Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Develops photojournalistic skills in capturing moments of real life from a unique personal viewpoint. Covers a broad overview of new media story-telling techniques. Students will focus on the way they observe the world around them and on the content and quality of their photographs. Recommended course to take in advance: Digital Photography I.

## JOU 175 Special Topics

$0-12$ credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## JOU 206 Intermediate Newswriting and Editing

3 credit hours
Prerequisite: JOU 106 with a grade of C or better
Presents how to gather information as an investigative reporter through research of local, state and federal government publications, how to cover police beat and city hall, how our courts and regulatory agencies function, and how to cover other challenges as the environment, religion, science, medical, public safety and business.

## JOU 221 Newspaper Design I

3 credit hours
Prerequisite: JOU 106 with a grade of C or better
Provides students with experience in newswriting, editing, design, layout and advertising for newspaper production. Students may be required to work on the college newspaper or other news-oriented publications.

## JOU 222 Newspaper Design II

3 credit hours
Prerequisite: JOU 221 with a grade of C or better
Allows students to build their newspaper production experience through work on the college newspaper or other approved news-oriented publications.

## JOU 225 Internet Media

3 credit hours
Prerequisite: ENG 121 with a grade of Cor better
Explores techniques and approaches in the latest delivery methods for internet-based journalism. Students explore digital media outlets such as blogs, microblogs, audio and video podcasts, e-zines and social networks. Students create journalistic pieces for internet-based media, focusing on best journalistic practices, ethics of internet media, and technology emergence effecting digital journalism. Concepts in video production, photography, writing, sourcing, editing and additional relevant skills necessary for the citizen journalist are introduced. Students create all components for the online dissemination of news, documentary and infotainment.

## JOU 241 Feature and Magazine Writing

## 3 credit hours

Prerequisite: ENG 121 with a grade of C or better
Studies trade, consumer and technical markets; manuscript development with emphasis on nonfiction; submission techniques; and trends affecting the marketing of manuscripts.

## JOU 280 Internship

1-6 credit hours
Prerequisite: ENG 121 and JOU 105 with grade of C or better Provides structured and guided individualized research that is organized and tailored around the interests and needs of the individual student who may use journalism skills and experiences acquired during previous coursework.

## JOU 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Meets individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## JPN - JAPANESE COURSES

## JPN 101 Conversational Japanese I

3 credit hours
Introduces beginning students to conversational Japanese and focuses on understanding and speaking Japanese. Covers basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

## JPN 102 Conversational Japanese II

3 credit hours
Prerequisite: JPN 101 with a grade of Cor better
Continues the sequence for students who wish to understand and speak Japanese. Covers basic conversational patterns, expressions and grammar.

## JPN 111 Japanese Language I

5 credit hours
Introduces a sequence dealing with the development of functional proficiency in listening, speaking, reading and writing the Japanese language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors.

## JPN 112 Japanese Language II

5 credit hours
Prerequisite: JPN 111 with a grade of Cor better
Continues Japanese Language I in the development of functional proficiency in listening, speaking, reading and writing the Japanese language.

## JPN 211 Japanese Language III: GT-AH4

3 credit hours
Prerequisite: JPN 112 with a grade of C or better
Continues Japanese Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Japanese language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors. This is one of the Statewide Guaranteed Transfer courses. GT-AH4

## JPN 212 Japanese Language IV: GT-AH4

3 credit hours
Prerequisite: JPN 211 with a grade of Cor better
Continues Japanese Language I, II and III in the development of increased functional proficiency in listening, speaking, reading and writing the Japanese language.
Note: the order of the topics and the methodology will vary according to individual texts and instructors. This is one of the Statewide Guaranteed Transfer courses. GT-AH4

## JPN 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## JPN 285 Independent Study

0-12 credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## LAK - LAKOTA SIOUX LANGUAGE COURSES

## LAK 101 Conversational Lakota Sioux Language

 3 credit hoursIntroduces the skills necessary to acquire proficiency in communication skills (listening, speaking, writing and reading) in the Lakota Sioux language. Introduces students to an understanding of the Lakota Sioux culture.

## LIT - LITERATURE COURSES

## LIT 115 Introduction to Literature I: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English
assessment score of 95 or better, or equivalent ACT/SAT scores Introduces students to fiction, poetry,and drama. Emphasizes active and responsive reading. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## LIT 126 Study of Poetry

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores
Focuses on careful reading and interpretation of various poems representing types and periods of poetry. It examines formal as well as thematic elements of poetry. Critical thinking, discussion, and writing about poetry will enhance perceptive reading skills and heighten awareness of the human condition.

## LIT 175 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## LIT 201 World Literature to 1600: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines significant writings in world literature from the ancients through the Renaissance. Emphasizes careful readings and understanding of the works and their cultural backgrounds. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## LIT 202 World Literature After 1600: GT-AH2

 3 credit hoursPrerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines significant writings in world literature from the seventeenth century to the present. Emphasizes careful reading and understanding of the works and their cultural backgrounds. This is one of the Statewide Guaranteed Transfer courses. GT-AH2

## LIT 205 Ethnic Literature: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on significant texts by ethnic Americans including African-American, Native American, Latino/a, and Asian Americans. Emphasizes careful reading and understanding of the cultural and literary elements of the works. This course is one of the Statewide Guaranteed Transfer courses. GT- AH2

## LIT 211 American Literature To Civil War: GT-AH2

 3 credit hoursPrerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides an overview of American literature from the Native American through the nineteenth century Romantics. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## LIT 212 American Literature After Civil War: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides an overview of American literature from the mid-nineteenth century to the present. It explores ideas, historical and social contexts, themes and literary characteristics of works in various genres by major writers. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## LIT 225 Introduction to Shakespeare: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores a selection of works by William Shakespeare. It focuses on careful reading and interpretation of the plays and poems, includes pertinent information about Elizabethan England, and examines formal as well as thematic elements of the selected works. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## LIT 235 Science Fiction

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines the techniques and issues of science fiction through a close reading of a variety of writers in the genre.

## LIT 246 Literature of Women

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines the techniques and themes in literature by and about women by examining women's issues from various genres.

## LIT 255 Children's Literature

3 credit hours
Prerequisite: REA 090 and ENG 090 with a grade of C or better, or English assessment score of 95 or better and Reading assessment score of 80 or better, or equivalent ACT/SAT scores

Evaluates the criteria for selecting appropriate literature for children through exploration of genres, age levels, values taught through literature, and the literary and artistic quality of various texts.

## LIT 259 Survey of African American Literature: GT-AH2

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines African American literature from 1750 to the present, exploring ideas, historical and social contexts, themes, and literary characteristics of works in various genres by major writers. This course is one of the Statewide Guaranteed Transfer courses. GT-AH2

## LIT 267 The Bible as Literature

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces the Bible as the textual centerpiece of Western literature. Students will encounter the various literary genres represented in Biblical texts, the process of canonization, ways in which the Bible has been read by its various interpretive communities, and some impacts of the Bible in such areas as law, poetry, fiction, psychology, ethics, and theology.

## LIT 275 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## LIT 285 Independent Study

0-12 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Explores particular authors, topics, themes in depth, such as Ibsen, Faulkner or Twain, or great fiction of the nineteenth century.

## MAC - MACHINE TECHNOLOGIES COURSES

## MAC 100 Machine Shop Safety

1 credit hour
Covers the hazards of a machine shop including health and safety, locating essential safety information from a code or other standard, location and use of safety and emergency equipment, and identifying and applying shop safety procedures.

## MAC 101 Introduction to Machine Shop

3 credit hours
Prerequisite: MAC 100 with a grade of C or better
Reinforces safety procedures, use of bench tools, layout tools, power saws, drill presses, precision measurement tools, and various hand tools related to the machine shop. End mill and drill angles and construction. Also included are sharpening drill bits and general purpose turning tools for the lathe and determining speeds and feeds for both the lathe and the milling machine.

## MAC 102 Blueprint Reading

3 credit hours
Students read blueprints and interpret symbols, notes, dimensions and tolerances.

## MAC 110 Introduction to Engine Lathe

3 credit hours
Prerequisite: MAC 101 with a grade of C or better
Introduces basic lathe applications which will consist of identifying lathe components and controls, understanding turning safety, calculating speeds and feeds, using various tools and tool holders, identifying basic tool geometry, and the use of common lathe spindle tooling. Students will perform basic lathe operations, which will consist of facing, center-drilling, chuck turning, turning between centers, boring, grooving, tapers, knurling, and single point threading. Students will be required to produce specified parts to a tolerance of $+/-.004$ inches and perform competencies set by manufacturing standards.

## MAC 111 Intermediate Engine Lathe

3 credit hours
Prerequisite: MAC 110 with a grade of C or better
Teaches students to prepare single point external and internal unified screw threads to a Class 3 fit along with threading tolerances and classes. Teaches the mechanics of the leadscrew and feedbars of a lathe. Generate angles with the compound rest within one degree and perform intermediate tool grinding.

## MAC 112 Advanced Engine Lathe

3 credit hours
Prerequisite: MAC 110 with a grade of C or better
Prepares students to form radius, single-point isometric threads, turn spherical radius, use a radius gauge, as well as advanced taper techniques and work support devices. Students will perform advanced grooving operations and advanced tool grinding.

## MAC 120 Introduction to Milling Machine

3 credit hours
Prerequisite: MAC 101 with a grade of C or better
Teaches students to identify the major parts of the vertical mill, align a vise, use an indicator, and edge finder. Introduces concepts such as boring head and advanced holding devices. Teaches speeds and feed calculations, mill flat, square surfaces, drill and ream holes, and work within a plus or minus .002 inch tolerance.

## MAC 121 Intermediate Milling Machine

3 credit hours
Prerequisite: MAC 120 with a grade of Cor better
Teaches students to indicate a milling head for simple milling operations. Prepares students to determine hole locations by coordinates. Introduction to trigonometry used in manufacturing. Using a mill for advance techniques such as squaring a block, perform angle layouts with various methods including a sign bar. Perform simple keyseat and slotting operations.

## MAC 122 Advanced Milling Machine Operations

3 credit hours
Prerequisite: MAC 121 with a grade of C or better
Prepares students to determine hole locations by coordinates and degrees, use a rotary table and indexing head. Use a jig bore to drill holes by the coordinate method, and work within plus or minus .001 inch tolerance. Advance mill head indicating techniques. Advanced pocketing slotting and keyseat techniques. Advanced edging techniques.

## MAC 141 Advanced Machining Operations

4 credit hours
Prerequisite: MAC 110 or MAC 111 with a grade of C or better 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 145 Production Manufacturing Concepts

 3 credit hoursPrerequisite: MAC 102 with a grade of $C$ or better Familiarizes the student to concepts related to manufacturing environments. Topics will consist of, but not be limited to, Material Identifications, Shop Floor Management, Just-in-Time Manufacturing, Kan-Ban Systems, Statistical Quality Control, Total Quality Management. Various lectures and demonstrations of these processes will be delivered. Students may be required to research, explore, and report on particular manufacturing processes or topics.

## MAC 178 Machining Workshop

1-6 credit hours
Prerequisite: MAC 110 or MAC 120 with a grade of C or better Provides students with an experiential learning opportunity.

## MAC 201 Introduction to CNC Turning Operations

3 credit hours
Prerequisites:MAC 121 and MAC 205 with a grade of $C$ or better or Chair permission
Covers computer numerical control (CNC) lathe operations, control functions, the letter address system, the program format, and machine setup. G \& M codes, control functions, the letter address system, and math issues related to CNC are included. This class is NOT offered on an open-entry, open-exit basis.

## MAC 205 Introduction to CNC Milling Operations

3 credit hours
Prerequisite: CAD 101, MAC 111, and MAC 121 with a grade of C or better or Chair permission
Provides transitional information between conventional machining applications and the typical applications found in Computer Numerical Control Machining. Topics may consist of Numerical Control Systems, The Cartesian Coordinate System, High Efficiency Tooling Applications, Objectives of Nu-
merical Control, Calculating Speed and Feed Rates, Defining and Calculating Tool Motion, Fixturing Requirements, Basic Program Structure, Programming Codes, and Basic Conversational Programming. Operations of NC machines may be required.

## MAC 207 CNC Milling Lab

3 credit hours
Prerequisite: MAC 205 with a grade of Cor better
Prepares students to write programs and run parts from both blueprints provided and per individual student designs. Proofing and editing programs, sub-programs, managing cutter compensations, fixture offsets, and overall execution at the machine will be the primary focus.

## MAC 220 Modern Production Manufacturing

3 credit hours
Prerequisite: MAC 145 with a grade of C or better or Chair permission
Exposes students to advanced machining processes typically found in state-of-the-art manufacturing environments. Students will learn how to use precision machining to make fixtures, tooling plates, cutting tools, and other complex designs using machining applications. Students will be required to use their skills, competencies, and knowledge to maintain and support a CNC production environment.

## MAC 240 CAD/CAM 2-D

3 credit hours
Prerequisite: MAC 205 with a grade of C or better
Provides the student with the essential concepts and techniques that are required to successfully create part geometry, generate tool path, verify tool path models, and post process the NC codes. The student will be exposed to a 2 -axis machining, 3 -axis machining wire frame and surface modeling, lathe programming, and DNC systems. Programming projects and models will be demonstrated in the CNC manufacturing lab.

## MAC 245 CAD/CAM 3-D

3 credit hours
Prerequisite: MAC 240 with a grade of C or better or Chair permission
Covers both the production and surfacing of threedimensional geometry in a self-paced setting. Issues will be covered related to the production of wire frames, solids, surfaces, the joining of surfaces, joining of solids, managing construction planes, sweeping, rotating, and controlling parameter settings. A familiarity with Mastercam (GibbsCAM), CNC programming techniques, and CNC operations is recommended.

## MAC 246 CAD/CAM 3D Lab

3 credit hours
Corequisite: MAC 245 with a grade of C or better
Requires students to produce a variety of three dimensional lab exercises on robotic machinery in a self-paced format in conjunction with MAC 225. Coursework will focus primarily on advanced geometry to include developing an understanding of CNC codes related to work offsets, cutter compensations, and tool management within CAD/CAM programs on the milling machine.

## MAC 250 Advanced Inspection Techniques

3 credit hours
Prerequisite: MAC 145 with a grade of Cor better or Chair permission
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 252 Practical Metallurgy

3 credit hours
Prerequisite: MAC 100 with a grade of Cor better and Chair consent
Offers a study of metallurgical terms and definitions in an effort to understand both the behavior of metals and their service to industry. Characteristics during heating, cooling, shaping, forming, and the stresses related to their mechanical properties are covered. The theory behind the alloys, heat treatment processes, and the impact they have on strength, toughness, hardness, elasticity, ductility, malleability, wear resistance and fatigue resistances is investigated.

## MAN - MANAGEMENT COURSES MAN 116 Principles of Supervision

3 credit hours
Prerequisite: BUS 115 with a grade of Cor better
Studies the principles and techniques of supervising and motivating personnel. This course is designed for students who are interested in supervising others or for those currently in supervision. Course content focuses on the human interaction in supervision.

## MAN 126 Total Quality Management

3 credit hours
Covers the rationale for, method of implementing and key characteristics of TQM. Topics include developing a vision of a quality culture, strategic planning for implementation, customer focus, supplier relationships, benchmarking, continuous improvement, employee empowerment, and teamwork. Through case studies students learn to apply TQM in manufacturing and service environments.

## MAN 128 Human Relations in Organizations

3 credit hours
Explores the importance of effective communication in our personal lives as well as in the world of business. Practical business applications such as employee motivation, handling customer complaints, and effectively resolving conflict in the workplace will be a major part of the curriculum.

## MAN 160 Entrepreneurship

3 credit hours
Prerequisite: ACC 101 with a grade of C or better and BUS 115 with a grade of Cor better
Teaches entrepreneurs planning skills from business concept development to the actual development of a comprehensive business plan. This practical approach includes one-on-one counseling with the instructor and professional volunteer
counselors. Guest speakers are an integral part of the course. Topics include marketing strategies and tactics, profitability, human resource management, financial management and projections, innovations, and loan negotiations.

## MAN 200 Human Resources Management I

 3 credit hoursPrerequisite: BUS 115 with a grade of Cor better
Provides the student with a broad overview of the contemporary issues, theories and principles used to effectively manage human resources. Topics include recruiting, hiring, compensation and benefits, training and development, employee relations and legal issues.

## MAN 216 Small Business Management

 3 credit hoursPrerequisite: ACC 101, with a grade of C or better; and BUS 115 , with a grade of Cor better, or CIS 118 , with a grade of C or better
Examines the elements necessary for the successful formation of a new small business. It is also designed to enhance the skills of those already involved in the operation of a small business. The course includes the development of a complete small business plan.

## MAN 224 Leadership

3 credit hours
Prerequisite: BUS 115 with a grade of C or better
Focuses on the leadership skills necessary to bring about change in an organization. Students learn to develop and communicate a shared vision, to empower employees, to manage conflict, to negotiate, and to develop organizations so that all are working toward common goals.

## MAN 225 Managerial Finance

3 credit hours
Prerequisite: ACC 121, with a grade of C or better, and BUS
115, with a grade of Cor better
Examines the concepts and techniques used to analyze financial accounting information for managerial planning, decision making and control. The focus of the course is on decision-making relating to the areas of budgets, forecasts, cost volume production, RO and financial statements.

## MAN 226 Principles of Management

3 credit hours
Prerequisite: BUS 115 , with a grade of C or better, and REA 090, with a grade of C or better
Presents a survey of the principles of management. Emphasis is on the primary functions of planning, organizing, leading and controlling with a balance between the behavioral and operational approach.

## MAN 241 Project Management in Organizations

3 credit hours
Prerequisite: MAN 226 with a grade of C or better
Introduces students to the planning, implementation, and control activities of project management, including project and performance evaluation, quality control and work flow analysis. Emphasis will be on the initiating, planning, executing, controlling and closing activities of project management.

## MAN 242 Project Management Tools and

 Techniques3 credit hours
Prerequisite: MAN 241 with a grade of C or better
Emphasizes project management techniques and tools wherein students will learn the necessary skills to track a project, keeping it on time and within budget. Students will apply software to solve project cases and to construct scheduling charts and reports.

## MAR - MARKETING COURSES <br> MAR 111 Principles of Sales

3 credit hours
Prerequisite: BUS 115 with a grade of C or better
Enables students to understand and develop ethical sales techniques and covers the role of selling the marketing process. Areas of emphasis include behavioral considerations in the buying and selling process along with sales techniques.

## MAR 117 Principles of Retailing

3 credit hours
Prerequisite: BUS 115 with a grade of C or better or Corequisite: BUS 115
Emphasizes the study of the basic principles and techniques of merchandising, operations, layout, store organization, site location, and customer service with an emphasis on retailing operations.

## MAR 158 Basic Customer Service

1 credit hour
Focus on basic concepts and techniques needed to effectively serve customers. Specific emphasis given to manage customer expectations by building customer rapport and creating positive outcomes.

## MAR 160 Customer Service

3 credit hours
Prerequisite: ENG 090, with a grade of C or better, REA 060, with a grade of Cor better, and BUS 115 with a grade of Cor better
Enables students to learn the relationship of self to customers, problem solve and understand the importance of communicating with customers. Specific emphasis is given to managing customer expectations by building customer rapport and creating positive outcomes.

## MAR 216 Principles of Marketing

3 credit hours
Prerequisite: BUS 115, with a grade of C or better, or CIS 118, with a grade of $C$ or better
Presents the analysis of theoretical marketing processes and the strategies of product development, pricing, promotion and distribution, and their applications to businesses and the individual consumer.

## MAR 220 Principles of Advertising

3 credit hours
Prerequisite: BUS 115 with a grade of C or better
Examines the principles and practices of advertising and its relationship to business in order to promote a business organization. Areas of major emphasis include advertising principles, strategies, media, copy and layout and ethical considerations.

## MAR 240 International Marketing

3 credit hours
Prerequisite: BUS 115 with a grade of C or better
Enables the student to explore the international marketing for U.S. products, and to explore the increasing competitive international environment and recent changes in the environment that have challenged U. S. business. The course is designed to make the reader an "informed observer" of the global market place as well as enabling him/her to develop skills to make marketing decisions in a global context.

## MAT - MATHEMATICS COURSES

## MAT 030 Fundamentals of Mathematics

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum. 2 credit hours
Prerequisite: Arithmetic Assessment Score of 24-56
Students are also advised to register for AAA 101, The Student Experience Class ( 1 credit).
Note: This course is not eligible for federal student aid. Includes the vocabulary, operations and applications of whole numbers, decimals and basic fractions and mixed numbers.

## MAT 045 Compressed Pre Algebra with Basic Math

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum. 4 credit hours
Prerequisite: Arithmetic Assessment Score of 24-56
Explores the vocabulary, operations and applications of whole numbers, decimals, basic fractions and mixed numbers. It further investigates topics including fractions, mixed numbers, ratios, proportions, percentages, measurements, integers, introduction to algebraic expressions and the solution of basic first degree equations. Designed for students with an Elementary Algebra score of less than 45 and an Arithmetic ACCUPLACER score of 24-120. This course is a combination of MAT 030 and 060.

## MAT 060 Pre-algebra

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum.
3 credit hours
Prerequisite: MAT 030 with a grade of C or better or
Arithmetic Assessment Score of 57+
Students are advised to register also for AAA 090, Academic Achievement Strategies.
Furthers the study of fractions and mixed numbers. Also included are vocabulary, operations and applications of ratio, proportion, percent, area, perimeter, US and metric measures, integers, and an introduction to algebraic expressions and the solution of basic first-degree equations.

## MAT 070 Special Topics

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum. 4 credit hours
Prerequisite: MAT 030 with a grade of C or better or Arithmetic Assessment Score of 57+
Explores the vocabulary, operations and application of ratios, proportions, percentages, measurements, integers, introduction to algebraic expressions and
solution of basic first degree equations, coordinate geometry, graphing linear equations and applications. Designed for students with an Elementary Algebra score of less than 45 and an Arithmetic Accuplacer score of 57-100.

## MAT 090 Introductory Algebra

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum. 4 credit hours
Prerequisite:MAT 060 with a grade of C or better or Elementary Algebra Assessment Score of 45-60
Includes first-degree equations, inequalities, formulas, polynomials, factoring polynomials, solving quadratic equations by factoring, coordinate geometry, graphing linear equations and applications. Algebraic fractions and systems of linear equations may be included.

## MAT 099 Intermediate Algebra

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum. 4 credit hours
Prerequisite: Grade of C or better in MAT 090 or Math assessment score of 61 (EA) or better
This course explores problem solving with further study of equations, slope, inequalities, systems of equations, polynomials, quadratic equations, rational expressions, rational exponents, radical expressions, graphing and applications. A graphing calculator or equivalent software may be utilized. This course is for students with an Accuplacer score of 61-84.

## MAT 103 Math for Clinical Calculations

3 credit hours
Prerequisite: Grade of C or better in MAT 090 and ENG 090 or Math assessment score of 61 (EA) or better and English assessment score of 95 or better
This course provides a review of general mathematics, introductory algebra and an opportunity to learn systems of measurement and methods of solving problems related to drug dosage and intravenous fluid administration. It is designed for students in the health disciplines. Topics may include algebra, graphs, measurement and conversion between various systems of measurement.

## MAT 107 Career Math

3 credit hours
Prerequisite: Grade of C or better in MAT 060 or Math
assessment score of 45 (EA) or better
This course covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented at an introductory level and the emphasis is on applications.

## MAT 108 Technical Mathematics

4 credit hours
Prerequisite: Grade of C or better in MAT 060 or Math assessment score of 45 (EA) or better
This course covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may included measurement, algebra, geometry, trigo-
nometry, graphs and/or finance. These are presented at an introductory level and the emphasis is on applications.

## MAT 111 Technology Lab for Algebra <br> 1 credit hour

Prerequisite: Grade of C or better in MAT 099, Math assessment of 85 (EA) or better, or equivalent ACT/SAT scores
This course explores and applies algebraic topics in a laboratory course setting using graphing calculators.

## MAT 112 Financial Mathematics

3 credit hours
This course covers topics including pricing, taxes, insurance, interest, annuities, amortization, investments using financial calculators and spreadsheets.

## MAT 120 Mathematics for Liberal Arts: GT-MA1

4 credit hours
Prerequisite: Grade of C or better in MAT 090 or Math assessment score of 61 (EA) or better
This course develops mathematical and problemsolving skills. Appropriate technological skills are included. Content is selected to highlight connections between mathematics and the society in which we live. Topics include set theory and logic, mathematical modeling, probability and statistical methods, and consumer mathematics. Additional content will include one topic in geometry, numeration systems, decision theory, or management science. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

## MAT 121 College Algebra: GT-MA1

4 credit hours
Prerequisite: Grade of C or better in MAT 099, Math assessment score of 85 (EA) or better, or equivalent ACT/SAT scores
This course includes a brief review of intermediate algebra, equations and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems, selection of topics from among graphing of the conic sections, introduction to sequences and series permutations and combinations, the binomial theorem and theory of equations. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

## MAT 122 College Trigonometry: GT-MA1

3 credit hours
Prerequisite: Grade of C or better in MAT 121, Math assessment score of 63 (CLM) or better or equivalent ACT/SAT scores
This course covers topics including trigonometric functions (with graphs and inverse functions), identities and equations, solutions of triangles, complex numbers, and other topics as time permits. This is a traditional prerequisite course to the calculus sequence. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

## MAT 123 Finite Mathematics: GT-MA1

4 credit hours
Prerequisite: Grade of C or better in MAT 099, Math assessment score of 85 (EA) or better, or equivalent ACT/SAT scores
This course 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 top-
ics such as statistics when time permits. This course is primarily intended for business, life science, or social science majors. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

## MAT 125 Survey of Calculus: GT-MA1

4 credit hours
Prerequisite: Grade of C or better in MAT 121 or MAT 123, or Math assessment score of 63 (CLM) or better, or equivalent ACT/SAT scores
This course includes derivatives, integrals and their applications, with attention restricted to algebraic, exponential and logarithmic functions for business, life science and/or social science majors.
Note: This class is for business students, not science/ engineering. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

## MAT 135 Introduction to Statistics: GT-MA1

3 credit hours
Prerequisite: Grade of C or better in MAT 090 and REA 090 or Math assessment score of 61 (EA) or better and Reading assessment score of 80 or better, or equivalent ACT/SAT scores This course includes data presentation and summarization, introduction to probability concepts and distributions, statistical inference--estimation, hypothesis-testing, comparison of populations, correlation and regression. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

## MAT 155 Integrated Math I

3 credit hours
Prerequisite: Grade of C or better in MAT 099 or Math assessment score of 85 (EA) or better, or equivalent ACT/SAT scores Course Note: This course is designed for students who are seeking an AA degree with an emphasis in education. This course engages students in the concepts of school mathematics, including the recognition of numerical and geometric patterns and their application to a variety of mathematical situations; mathematical problem-solving, reasoning, critical thinking, and communication; algebraic thinking, representation, analysis, manipulation, generalizations and extensions.

## MAT 156 Integrated Mathematics II

3 credit hours
Prerequisite: Grade of C or better in MAT 155
Course Note: This course is designed for students who are seeking an AA degree with an emphasis in education.
This course furthers MAT 155 concepts and will include fundamentals of probability, statistics, and Euclidean geometry. Mathematical problem-solving, reasoning, critical thinking and communication will continue to be an integral part of this sequence.

## MAT 201 Calculus I: GT-MA1

5 credit hours
Prerequisite: Grade of C or better in MAT 121 and MAT 122, or Math assessment score of 103 (CLM), or equivalent ACT/ SAT scores
This course introduces single variable calculus and analytic geometry. It includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

## MAT 202 Calculus II: GT-MA1

5 credit hours
Prerequisite: Grade of C or better in MAT 201
This course continues the study of single variable calculus which will include techniques of integration, polar coordinates, analytic geometry, improper integrals, and infinite series. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

## MAT 204 Calculus III with Engineering Applications: GT-MA1

5 credit hours
Prerequisite: Grade of C or better in MAT 202
This course includes all the topics of MAT 203 Calculus III with an additional emphasis on word problems and problem solving. This is the third course in the three-course calculus sequence. This course will additionally contain a thorough examination of multiple integration. This will include double and triple integrals, line integrals, Stokes' and Green's Theorems, and their applications. A graphing calculator is required for this course. This course is one of the Statewide Guaranteed Transfer courses. GT-MA1

## MAT 266 Differential Equations with Linear Algebra <br> 4 credit hours <br> Prerequisite: Grade of C or better in MAT 202

This course covers first and second order differential equations, series solutions, Laplace transforms, linear algebra, eigenvalues, first order systems of equations, and numerical techniques are covered.

## MGD - MULTIMEDIA GRAPHIC DESIGN COURSES

MGD 101 Introduction to Computer Graphics 3 credit hours
Prerequisite: ENG 090 with a grade of C or better or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces the student to the computer system developed for graphics. The student will learn the hardware and software components for multimedia production. Each student will explore basic computer operations, ergonomics, file management, scanning techniques, archiving capabilities, and utilization of the multimedia department server and internet connection.

## MGD 105 Typography and Layout

3 credit hours
Prerequisite: MGD 101 and MGD 116 with a grade of C or better
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 111 Adobe Photoshop I

3 credit hours
Prerequisite: MGD 101 with a grade of C or better
Corequisite: MGD 116
Concentrates on the high-end capabilities of raster photo-editing software as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics and videos.

## MGD 112 Adobe Illustrator I

3 credit hours
Prerequisite: MGD 101 and MGD 116 with a grade of C or better
Acquaints students with the processes of a vector drawing program on the computer. Students learn how to use the tools to create digital artwork that can be used in web design, print media and digital screen design.

## MGD 114 Adobe InDesign

3 credit hours
Prerequisite: MGD 101 and MGD 116 with a grade of C or better
Introduces students to InDesign, a page layout program which integrates seamlessly with other Adobe design programs. InDesign delivers creative freedom and productivity to DTP. Class discussions and independent projects supplement hands-on classroom work.

## MGD 116 Typography I

## 3 credit hours

Prerequisite: MGD 101 with a grade of C or better, or Corequiste: MGD 101
Introduces the history and concepts of typography as applied to graphic communications. Explores appropriate use of typography in a variety of design applications, emphasizing the basic design principles of typographic compositions and typesetting. Covers type recognition and typographic terms.

## MGD 141 Web Design I

3 credit hours
Prerequisite: MGD 101 with a grade of C or better or instructor consent, and MGD 116 with a grade of C or better Introduces web site planning, design and creation using industry-standards-based web site development tools. Screen-based color theory, web aesthetics, use of graphics editors and intuitive interface design are explored.

## MGD 203 Design and Concept

3 credit hours
Prerequisite: MGD 105 with a grade of C or better
Covers the process of comprehensive problem solving of complex and advanced print design. Provides experience in digital production of designs, using multiple computer applications emphasizing concept.

## MGD 213 Electronic Prepress

3 credit hours
Prerequisite: MGD 105 with a grade of C or better
Explores in detail the electronic prepress process. Students examine steps for preparing a digital file for trapping, output considerations and proofing techniques. Creating effective electronic designs and efficient use of today's software programs are also covered.

## MGD 285 Independent Study

0-12 credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## MGD 289 Studio Art/Portfolio (Graphic Design Capstone)

1-6 credit hours
Prerequisite: MGD 203 with a grade of $C$ or better
A demonstrated culmination of learning within a given program of study.

## MTE - MANUFACTURING TECHNOLOGY COURSES

## MTE 101 Introduction to Manufacturing

## 3 credit hours

Prerequisite: Grade of C or better in ENG 090 and MAT 099, with a grade of ( or better, or English assessment score of 95 or better and Math assessment score of 85 (EA) or better, or equivalent ACT/SAT scores
Gives students a broad understanding of manufacturing and the role of the manufacturing technician. Students learn how manufacturing is important to Colorado and the U.S. Topics covered include manufacturing concepts, principles, and processes, cost elements, tools and techniques, safety, current trends and manufacturing in the future.

## MTE 120 Manufacturing Processes

3 credit hours
Prerequisite: Grade of C or better in ENG 090 and MAT 099, or English assessment score of 95 or better and Math assessment score of 85 (EA) or better, or equivalent ACT/SAT scores
Provides the student an overview of the different methods, tools and machines which are used to manufacture industrial and consumer products.

## MTE 230 Design for Manufacturability

## 3 credit hours

Prerequisite: CAD 101 with a grade of $C$ or better
Provides students with an understanding on how to design a product for test, assembly, service, rebuild/reuse/recycle, postponement and several other product attributes. The student learns the role and development of design specifications, the importance and benefits of DFM, the design rules and their application, the design/manufacturing integration, the concept of designed-in quality, the role of design tolerances, the need for standard part use and the application and importance of concurrent engineering practices. In addition the student learns the application of tools CAD, CAM, CAB, PDMS, and CIM in product development.

## MTE 244 Lean Manufacturing - Practices and Processes

## 3 credit hours

Prerequisite: CAD 101 with a grade of $C$ or better
Provides a study of the Toyota Production System (TPS), also known as Lean Manufacturing, Just-inTime (JIT), Demand Flow, or Build-to-Order. The course covers the build-to-forecast batch-process method and compares it with TPS. The students study and develop in the lab the following TPS concepts/methods: customer expectations, seven fundamental wastes, plan-do-check-act cycle, kanban system, kanban types, material flow, group technology, manufacturing cells, point-of-use storage and support, and setup/changeover time reduction. This course also covers application of the following problem solving tools: flowchart, cause-and-effect diagram, check sheet, pareto chart, root cause anal-
ysis, statistical process control. Students investigate the basics of high-mix, low-volume manufacturing.

## MUS - MUSIC COURSES

## MUS 100 Introduction to Music Theory

3 credit hours
Prerequisite: ENG 090 with a grade of C or better or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces the basics of music theory. Course designed to help the beginning music student, or those students with limited background in music theory, study the basic elements of music. Topics include notation, rhythm, scales, key signatures, intervals, chord, beginning level melodic and rhythm dictation, ear-training and sight-singing skills.

## MUS 106 Introduction to Songwriting

3 credit hours
Prerequisite: MUS 100 with a grade of C or better
Examines the various processes and styles of songwriting and offers techniques and ideas for creating songs ranging from functional to original. You will explore the common factors in all styles of songwriting, and use them to bring out creative song ideas whether you have written songs before or have just always wanted to see if you could. A basic knowledge of music reading for any instrument and elementary music theory is recommended, but not required.

## MUS 110 Music Theory I

3 credit hours
Corequisites: MUS 112 and MUS 131
Presents music fundamentals, diatonic four-part harmony, analysis, ear training, and keyboard harmony. For music majors transferring to a 4-year program.

## MUS 111 Music Theory II

3 credit hours
Prerequisite: MUS 110 with grade of $C$ or better
Corequisite: MUS 113 AND MUS 132
Presents chromatic four-part harmony, analysis, ear training, and keyboard harmony.

## MUS 112 Ear Training/Sight-singing I Lab

1 credit hour
Corequisites: MUS 110 and MUS 131
Presents exercises in sight-singing with melodic and rhythmic dictation

## MUS 113 Ear Training/Sight-singing II Lab

1 credit hour
Prerequisite: MUS 112 with a grade of C or better
Corequisites: MUS 111 and MUS 132
Presents exercises in sight-singing with melodic and rhythmic dictation

## MUS 120 Music Appreciation: GT-AH1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Covers the basic materials of music, musical forms, media, genres and musical periods. Emphasizes the development of tools for intelligent listening and appreciation. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## MUS 121 Music History Medieval thru Classical Period GT-AH1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Studies the various periods of music history with regard to the composers, esthetics, forms, and genres of each period. Considers music from the Middle Ages through the Classical period. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## MUS 122 Music History Early Romantic Period to Present GT-AH1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Studies the various period of music history with regard to the composers, aesthetics, forms and genres of each period. Considers music from the early Romantic period to the present. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## MUS 123 Survey of World Music: GT-AH1

3 credit hours
Prerequisite: ENG 090 with a grade of Cor better or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides an overview of non-Western music from around the world; provides basic listening skills and the historical/cultural context for a variety of world music styles to enable an understanding and appreciation of non-Western musical expression. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## MUS 131 Music Class I: Piano

2 credit hours
Prerequisite: MUS 100 with a grade of $C$ or better, or instructor consent
Applies the fundamentals of music to the voice or specific musical instruments. This course also introduces basic techniques, repertoire, and sight-reading. First year, first term.

## MUS 132 Music Class II: Piano

2 credit hours
Prerequisite: MUS 131 or MUS 141 with a grade of C or better, or instructor consent
Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading. First year, second term.

MUS 141 Private Instruction I (Cello, Composition, Conducting, Guitar/Bass, Piano, Songwriting,Viola, Violin, Voice, Woodwinds) 2 credit hours
Prerequisite: MUS 100 with a grade of C or better, or instructor consent
This course is for music majors planning to transfer to 4 year school. Offers an average of sixty minutes of private instruction per week. Regular attendance and participation in student performances is required. First year, first term.

MUS 142 Private Instruction II (Cello, Composition, Conducting, Guitar/Bass, Piano, Songwriting,Viola,Violin, Voice, Woodwinds)
2 credit hours
Prerequisite: MUS 141 with a grade of C or better, or instructor consent
This course is for music majors planning to transfer to 4 year school. Offers an average of sixty minutes of private instruction per week. Regular attendance and participation in student performances is required. First year, second term.

## MUS 151 Ensemble I

1 credit hour
First year, first term. Rehearses and performs various types of musical literature.

## MUS 152 Ensemble II

1 credit hour
Prerequisite: MUS 151 with a grade of C or better, or instructor consent
Rehearses and performs various types of musical literature. First year, second term.

## MUS 153 Ensemble III

1 credit hour
Prerequisite: MUS 152 with a grade of C or better, or instructor consent
Rehearses and performs various types of musical literature. First year, third term.

## MUS 154 Ensemble IV

1 credit hour
Prerequisite: MUS 153 with a grade of C or better, or instructor consent
Rehearses and performs various types of musical literature. First year, fourth term.

## MUS 161 Computer Music Application I

3 credit hours
Introduces students to the Digital Audio Workstation, current practices with MIDI instruments, MIDI sequencing, MIDI editing, music notation programs.

## MUS 162 Computer Music Application II

3 credit hours
Prerequisite: MUS 161 with a grade of C or better, or instructor consent
Designed to build on MUS 161. Course will further explore the Digital Audio Work (DAW) environment. Advanced music notation software techniques, creating unique synthesizer timbres, and audio/video synchronization will be among the topics explored.

## MUS 175 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## MUS 210 Music Theory III

3 credit hours
Prerequisite: MUS 111 with a grade of C or better, or instructor consent
Corequisite: MUS 212
Continues study of four-part music, including extended harmonic progressions of ninth, eleventh, thirteenth chords, extended alteration, non-chord tones, modulation and compositions.

MUS 211 Music Theory IV
3 credit hours
Prerequisite: 2MUS 210 and MUS 212 with a grade of C or better, or instructor consent
Corequisite: MUS 213
Offers a continuation of chromatic harmony, analysis, ear-training, and keyboard harmony. New topics will include Impressionism and 20th Century styles of composition.

## MUS 212 Advanced Ear Training/Sight-singing ILab

1 credit hour
Prerequisite: MUS 111 and MUS 113 with a grade of C or better Corequisite: MUS 210
Presents modulating and chromatic exercises in sight-singing and dictation. Dictation includes fourpart writing.

## MUS 213 Advanced Ear Training/Sight-singing

II Lab
1 credit hour
Prerequisite: MUS 210 and MUS 212 with a grade of C or better Corequisite: MUS 211
Presents modulating and chromatic exercises in sight-singing and dictation. Dictation includes fourpart writing.

MUS 241 Private Instruction III: (Cello, Composition, Conducting, Guitar/Bass, Piano, Songwriting,Violin,Viola, Voice, Woodwinds) 2 credit hours
Prerequisite: MUS 142 with a grade of C or better, or instructor consent
This course is for music majors planning to transfer to 4 year school. Offers private instruction consisting of sixty minutes per week. Regular attendance and participation in student performances is required. Second year, first term.

## MUS 242 Private Instruction IV (Cello,

Composition, Conducting, Guitar/Bass, Piano, Songwriting, Violin, Viola, Voice, Woodwinds)

## 2 credit hours

Prerequisite: MUS 241 with a grade of C or better, or instructor consent
This course is for music majors planning to transfer to 4 year school. Offers private instruction consisting of sixty minutes per week. Regular attendance and participation in student performances is required. Second year, third term.

## MUS 244 Private Instruction IV: (Cello,

 Composition, Conducting, Guitar/Bass, Piano, Songwriting, Violin/Viola, Voice, Woodwinds) 2 credit hoursPrerequisite: MUS 242 with a grade of C or better This course is for music majors planning to transfer to 4 year school. Offers an average of sixty minutes of private instruction per week. Regular attendance and participation in student performances is required. Second year, fourth term. May be repeated for credit more than once per individual institution policy.

## MUS 251 Ensemble I

1 credit hour
Prerequisite: MUS 152 with a grade of C or better
Rehearses and performs various types of musical literature. Second year, first term.

## MUS 252 Ensemble II

1 credit hour
Prerequisite: MUS 251 with a grade of Cor better
Rehearses and performs various types of musical literature. Second year, second term.

## MUS 275 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Covers specific topics in music. This course is offered as needed for credit appropriate to the topic and each offering includes a description of the topic(s).

## MUS 285 Independent Study

0-12 credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## NUA - NURSE AIDE COURSES NUA 101 Nurse Aide Health Care Skills

4 credit hours
Corequisite: NUA 170
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 170 Nurse Aide Clinical Experience

1 credit hour
Corequisite: NUA 101
$\overline{\text { Applies knowledge gained from NUA } 101 \text { in a clini- }}$ cal setting.

## NUR - NURSING COURSES

## NUR 101 Pharmacology Calculations

1 credit hour
Introduces the nursing student to the concepts and techniques of dosage calculations and medication administration by a variety of routes. Learners will apply basic math concepts to complex conversion of dosages between and among various systems of weights and volumes. Learners will apply critical thinking skills to the calculation and administration of medications.

## NUR 102 Alterations in Adult Health I

4 credit hours
Prerequisite: NUR 101, NUR 103, NUR 105 and NUR 131
Corequisite: NUR 132
Introduces the Practical Nurse to basic concepts necessary for assessing and meeting nursing care needs of the adult and older individual. The course focuses on the concepts of acute and chronic illness, pain management, fluid and electrolyte balance, perioperative care, oncology, death and
dying, infection and inflammation, and shock syndromes. Common disorders of the musculoskeletal, integumentary, respiratory and reproductive systems are presented. Relevant psychosocial and ethnocultural concepts and legal and ethical implications are integrated throughout.

## NUR 103 Health Assessment for the PN <br> 1 credit hour <br> Prerequisite: Admission to the program

Provides a foundation in assessment and related therapeutic communication and teaching skills within the legal role of the Practical Nurse. Information is presented to assist the learner in obtaining a health history and in performing a basic assessment on adults and older adults with predictable outcomes. Health maintenance and health promotion concepts are incorporated throughout the course. Relevant mental health, psychosocial and ethnocultural concepts are integrated. Learning theory regarding teaching and learning concepts are presented.

## NUR 104 Alterations in Adult Health II

## 5 credit hours

Prerequisite: NUR 102, NUR 110 and NUR 132
Corequisite: NUR 134
Continues the concepts introduced in Alterations in Adult Health I. It introduces the learner to basic concepts necessary for assessing and meeting nursing care needs of the adult and older individual. The course focuses on the common disorders of the neurological, cardiovascular, blood, lymphatic, immune, endocrine, gastrointestinal, renal and urinary systems and the special senses. Relevant psychosocial and ethno cultural concepts are integrated throughout.

## NUR 105 PN Arts and Skills

## 6.5 credit hours

Prerequisite: Admission to the program
Corequisite: NUR 131
Introduces the Practical Nursing learner to the principles of basic procedures necessary in caring for clients across the lifespan with stable and predictable outcomes in selected health care settings. Emphasis is placed on use of the nursing process in providing care. Opportunities are provided in the classroom and laboratory to develop competence in the performance of nursing skills. Relevant psychosocial and ethnocultural concepts are integrated throughout. Content regarding multidisciplinary relationships, historical perspectives, and health care delivery systems is presented. (One (1) or more credits may be given for students completing a Community College of Colorado approved CNA program.)

## NUR 110 Pharmacology Practical Nursing

3 credit hours
Prerequisite: Admission to the program
Focuses on the classifications of drugs as they relate to body systems as an introductory pharmacology course. Emphasis is placed on current drug therapy and specific prototype drugs. The discussion of each drug classification concentrates on the mechanism of action, main therapeutic effects, and the adverse reactions produced by the drug. Nurs-
ing considerations and patient teaching aspects for each drug classification are stressed throughout. Students learn how to use drug reference sources in gathering data for delivering effective and safe nursing care.

## NUR 111 Socialization into Practical Nursing

 1 credit hourIntroduces roles and responsibilities of the graduate Practical Nurse as defined by established standards, including the Colorado Nurse Practice Act. Emphasis is placed on accountability, supervision and assignment, and perspectives in health care. Career and job readiness skills are developed.

## NUR 113 Basic Concepts of OB Nursing

2 credit hours
Prerequisite: NUR 102, NUR 110 and NUR 132
Co-requisite: NUR 133
Introduces the study of families experiencing childbirth. The focus is on normal pregnancy and the physiological and psychological changes during this time including the care of the normal newborn. Selected common complications are discussed. Relevant psychosocial and ethnocultural concepts are integrated throughout. The nursing process is used as a framework to assist the learner in understanding basic maternal/newborn needs and nursing care within the role of the Practical Nurse.

## NUR 114 Basic Concepts of Peds Nursing

2 credit hours
Prerequisite: NUR 102, NUR 110, and NUR 132
Corequisite: NUR 133
Provides the learner with a basic understanding of the care of both the well and sick child within the role of the Practical Nurse. Emphasis is placed on the normal growth and development from infancy to adolescence. Nursing care of common childhood conditions is discussed. Theory is related to the nursing care of the well child, the sick child in various settings, the child with special needs, and the impact of pediatric care on the family. Relevant psychosocial, ethnocultural and family concepts are integrated throughout.

## NUR 115 Basic Concepts of Mental Health <br> 1 credit hour

Prerequisite: NUR 105 and NUR 131
Introduces the learner to basic concepts of mental health and illness. The course focuses on clients throughout the lifespan. Emphasis is placed on mental health concepts, selected common psychiatric disorders, treatment modalities and related nursing care. This course is designed to assist the Practical Nurse in caring for clients with varied psychosocial and ethno cultural backgrounds.

## NUR 116 Basic Concepts of Geri Nursing

1 credit hour
Prerequisite: NUR 105 and NUR 131
Introduces the learner to basic knowledge of normal aging, disorders related to aging and nursing care of the older individual within the role of the Practical Nurse. Concepts regarding legal and ethical factors affecting the older individual are presented. Relevant psychosocial and ethnocultural concepts are integrated throughout.

## NUR 131 Clinical I: Appl Arts \& Skills

4.5 credit hours

Prerequisite: Admission to the program
Corequisite: NUR 105
Introduces the learner to the health care environment as a foundation course. Enables the learner to begin to apply the nursing process in assessing and meeting the needs of the client within the role of the Practical Nurse. Emphasis is placed on the application of communication skills, basic and advancing nursing procedures, assessment and documentation of care in selected health care settings.

## NUR 132 Clinical II AppI Adult Health

3 credit hours
Prerequisite: NUR 101, NUR 103, NUR 105 and NUR 131
Corequisite: NUR 102
Enables the student to develop skills in applying the nursing process in delivery of increasingly complex nursing care. The course is intended to prepare the learner for the entry role of the Practical Nurse in assessing and meeting the needs of adults and older individuals in selected health care settings.

## NUR 133 Clinical III AppI Maternal Child

1.5 credit hours

Prerequisite: NUR 102, NUR 110, NUR 115, NUR 116 and NUR 132
Corequisite: NUR 113 and NUR 114
Introduces the learner to the childbearing, newborn, and pediatric client as a foundation course. Provides an opportunity for the learner to apply the principles learned in Basic Concepts of MaternalNewborn Nursing and in Basic Concepts of Nursing of Children.

## NUR 134 Clinical IV Adv Adult Health

4.5 credit hours

Prerequisite: NUR 102, NUR 110, NUR 115, NUR 116 and NUR 132
Corequisite: NUR 104
Provides the learner with the opportunity to enhance the application and integration of nursing theory with multiple clients. The focus is on the scope of practice for the Practical Nurse and the transition from the role of learner to graduate Practical Nurse. Emphasis is on the physical, psychosocial, spiritual, and ethno cultural needs of multiple clients in selected care settings.

## NUR 175 Special Topics

1-12 credit hours
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## OSH - OCCUPATIONAL SAFETY TECHNICIAN COURSES OSH 116 OSHA Voluntary Compliance

## 3 credit hours

Provides a 30-Hour OSHA certification course for general industry. Participants will review the current OSHA standards contained in 29 CFR 1910 and 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.

## PAR - PARALEGAL COURSES

PAR 115 Introduction to Law
3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides an understanding of the role of paralegals, issues facing paralegals, the working of the legal system, and ethical questions. Legal terminology and an overview of the substantive areas of law will be discussed.

## PAR 116 Torts

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on tort law, including negligence, intentional torts, and strict liability, with an emphasis on personal injury litigation.

## PAR 117 Family Law

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Emphasizes domestic law, common property, dissolutions, adoptions, legal separation, and other family law issues.

## PAR 118 Contracts

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, English assessment score of 95 or better, or equivalent ACT/SAT scores Examines the basic principles of contract law.

## PAR 125 Property Law

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on real estate law, ownership, sale, leasing, financing and government regulation of land.

## PAR 126 Administrative Law

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces administrative and regulatory agencies, their jurisdiction, rule-making and decision-making processes.

## PAR 201 Civil Litigation

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on an intensive study of the legal process including the Federal and Colorado Rules of Civil Procedure.

## PAR 202 Evidence

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces the student to State and Federal Rules of Evidence, and application to the trial process.

## PAR 205 Criminal Law

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces basic concepts of criminal law and crimi-
nal procedure, including Colorado statutes and Rules of Procedure.

## PAR 206 Business Organizations

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on the study of the major types of business organizations.

## PAR 208 Probate and Estates

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides an understanding of the creation and administration of an estate, including wills and trusts, and the probate process.

## PAR 209 Constitutional Law

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Emphasizes the study of the powers of government as they are allocated and defined by the United States Constitution.

## PAR 210 Sexual Orientation and the Law

3 credit hours
Prerequisite: ENG 090 with a grade of Cor better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Provides the substantive legal knowledge that students need to understand the relationship between American law and sexual minorities. Includes a comprehensive understanding of the unique legal issues facing lesbians and gay men, and covers the practical application of the law to these situations.

## PAR 211 Legal Research

3 credit hours
Prerequisite: ENG 090 with a grade of Cor better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces students to basic legal research tools including statutes, digests, case law, citations, encyclopedias, dictionaries, and online databases.

## PAR 212 Legal Writing

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores This course enables the student to practice the content and conventions of legal writing.

## PAR 217 Environmental Law

## 3 credit hours

Prerequisite: ENG 090 with a grade of Cor better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Covers state and federal laws concerning the environment, including chemical safety laws, workplace safety, and hazardous waste.

## PAR 218 Bankruptcy Law

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on federal and state laws and procedures involving bankruptcy.

## PAR 275 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## PAR 280 Internship: Paralegal

6 credit hours
Prerequisite: PAR 115, PAR 201, PAR 211 and PAR 212 with a grade of C or better
Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor.

## PAR 285 Independent Study

0-12 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## PAR 289 Capstone: Paralegal Synthesis

3 credit hours
Prerequisite: PAR 115, PAR 201, PAR 211 and PAR 212 with a grade of C or better
Emphasizes a synthesis of the information and skills that students have learned throughout their paralegal studies.

## PED - PHYSICAL EDUCATION COURSES

Each semester, Metro State University of Denver allows CCD students to participate in their Human Performance \& Leisure (HPL) courses. Courses listed on the CCD transcript as PED courses are offered and facilitated through Metro State University of Denver. Metro State University of Denver is responsible for providing the instruction/instructor. Please refer to the Metro State University of Denver catalog for specific details of each HPL course.

## PHI - PHILOSOPHY COURSES

PHI 111 Introduction to Philosophy: GT-AH3
3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces significant human questions and emphasizes understanding the meaning and methods of philosophy. Includes human condition, knowledge, freedom, history, ethics, the future, and religion. This course is one of the Statewide Guaranteed Transfer courses. GT-AH3

## PHI 112 Ethics: GT-AH3

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines human life, experience, and thought in order to discover and develop the principles and values for pursuing a more fulfilled existence. Theories designed to justify ethical judgments are applied to a selection of contemporary personal and social issues. This course is one of the Statewide Guaranteed Transfer courses. GT-AH3

## PHI 113 Logic: GT-AH3

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking. Emphasizes the development of decision-making and problem-solving. This course is one of the Statewide Guaranteed Transfer courses. GT-AH3

## PHI 114 Comparative Religions: GT-AH3

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces students to the major world religions from both the Eastern and Western world such as Hinduism, Buddhism, Confucianism, Taoism, Zoroastrianism, Judaism, Christianity, Islam, Baha i, and influential pre-literate traditions. Utilizes religious studies methods (historical, sociological, legal, psychological, and phenomenological), to understand the historical development of each religious tradition in terms of communities, cultural context, and modern manifestations; paying particular attention to differences between sects, denominations, schools, and factions within each tradition. Focus will include the examination of the charismatic leaders, prophets, and narratives that inform the worldview of each tradition. The course is one of the Statewide Guaranteed Transfer courses. GT-AH3

## PHI 115 World Religions — West

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces students to religions of the Western world: Zoroastrianism, Judaism, Christianity, Islam, Bahai, and influential pre-literate traditions. Utilizes religious studies methods (historical, sociological, legal, psychological and phenomenological), to understand the historical development of each religious tradition in terms of communities, cultural context, and modern manifestations; paying particular attention to differences between sects, denominations, schools, and factions within each tradition. Focus will include the examination of the charismatic leaders, prophets, and narratives that inform the worldview of each tradition.

## PHI 116 World Religions — East

3 credit hours
Prerequisite: ENG 090 with a grade of C or better or English assessment score of 95 or better, or equivalent ACT/SAT scores Introduces students to religions of the Eastern world: Hinduism, Buddhism, Jainism, Taoism, Confucianism, Sikhism, Shinto, and influential pre-literate traditions. Utilizes religious studies methods (historical, sociological, legal, psychological, and phenomenoligical), 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.

## PHI 175 Special Topics

0-12 credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## PHI 205 Business Ethics

## 3 credit hours

Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Analyzes ethical behavior for business. The premise is that ethics deals with right and wrong standards of behavior that are determined by the ethical and social expectations of society in general, and further, that we expect responsible people to observe the ethical standards of our society. A case approach is used throughout the course. The ethical issues involve trade-offs among ethical decisions and economics, legal, social, and cultural concepts.

## PHI 218 Environmental Ethics GT-AH3

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Critically analyzes theories of value of the natural world. Topics include the relation between scientific and moral principles; theories of the moral worth of persons, animals, plants and other natural objects; historical, religious and cultural influences on conceptions of nature; alternative accounts of human relationships and responsibilities to nature, including deep ecology and eco-feminism; and the connection between moral and political values and economic policies. This course is one of the Statewide Guaranteed Transfer courses. GT-AH3

## PHI 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## PHI 285 Independent Study

$0-12$ credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on directed readings and independent study on specific philosophical topics.

## PHY - PHYSICS COURSES

## PHY 105 Conceptual Physics: GT-SC1

## 4 credit hours

Prerequisite: Grade of C or better in ENG 090, REA 090 and MAT 090, or English assessment score of 95 or better, Reading assessment score of 80 or better, and Math assessment score of 61 (EA) or better
Focuses on mechanics, heat, properties of matter, electricity and magnetism, light and modern physics. Incorporates laboratory experience. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## PHY 111 Physics: Algebra-Based I with Lab: GT-SC1

 5 credit hoursPrerequisite: Grade of C or better in MAT 121, REA 090 and ENG 090, or Math assessment score of 63 (CLM) or better, Reading assessment score of 80 or better and English assessment score of 95 or better, or equivalent ACT/SAT scores

Corequisite: MAT 122
Explores the physical world through reasoning, mathematics and experimentation. Examines kinematics, force, circular motion, energy, momentum, torque, rotational dynamics, simple harmonic motion, temperature, heat and thermodynamics. The concepts and theories presented are explored through demonstrations and hands-on experiments. It is a general physics course that is recommended for all of the health sciences and all other interested students. Students entering engineering or one of the advance sciences should register for PHY 211. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## PHY 112 Physics: Algebra-Based II with Lab: GT-SC1

5 credit hours
Prerequisite: Grade of C or better in PHY 111
Expands upon PHY 111 and covers sound waves, electric fields, electric circuits, magnetic fields, light optics, and modern physics. Explores the concepts and theories presented in class through demonstrations and hands-on experiments. This course is one of the Statewide Guaranteed transfer courses. GT-SC1

## PHY 211 Physics: Calculus-Based I with Lab: GT-SC1

 5 credit hoursPrerequisite: Grade of C or better in MAT 201 Corequisite: MAT 202
Explores the physical world through reasoning, mathematics and experimentation. Covers kinematics, force, gravity, energy, momentum, torque, rotational dynamics, and fluids, and may include thermodynamics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments. This first semester calculus-based physics course is recommended for students entering engineering or one of the advance sciences. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## PHY 212 Physics: Calculus-Based II with Lab: GT-SC1 <br> 5 credit hours

Prerequisite: Grade of C or better in PHY 211 and MAT 202
Expands upon PHY 211 and examines waves, electric fields, electric circuits, magnetic fields, light and optics, and modern physics. The concepts and theories presented in class are explored through demonstrations and hands-on experiments. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## POS - POLITICAL SCIENCE COURSES

POS 105 Introduction to Political Science: GT-SS1 3 credit hours
Prerequisites: ENG 090 and REA 090 with a grade of C or better, or Chair consent
Focuses on a survey of the discipline of political science, including political philosophy and ideology, democratic and non-democratic governments and processes, and international relations. This course is one of the Statewide Guaranteed Transfer courses. GT-SS1

## POS 111 American Government: GT-SS1

3 credit hours
Prerequisites: ENG 090 and REA 090 with a grade of C or better, or Chair consent
Includes the background of the U.S. Constitution, the philosophy of American government, general principles of the Constitution, federalism, and civil liberties. Examines public opinion and citizen participation, political parties, interest groups, and the electoral process, and the structure and functions of the national government. This course is one of the Statewide Guaranteed Transfer courses. GT-SS1

## POS 125 American State and Local Government: GT-SS1

3 credit hours
Prerequisites: ENG 090 and REA 090 with a grade of C or better, or Chair consent
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. GT-SS1

## POS 205 International Relations: GT-SS1

3 credit hours
Prerequisite: ENG 121 and REA 090 with a grade of C or better or Chair consent
Examines relationships among modern nation states. Topics include diplomacy, nationalism, ideologies, power and influence, conflict and cooperation, the role of non-state actors, the international economy, and theoretical attempts to understand international behavior. This course is one of the Statewide Guaranteed Transfer courses. GT SS1

## POS 225 Comparative Government: GT-SS1

3 credit hours
Prerequisite: ENG 121 and REA 090 with a grade of C or better or Chair consent
Focuses on a comparison of the basic features of selected developed and developing countries. Topics include ideologies, political parties, interest groups, and governmental institutions. This course is one of the Statewide Guaranteed Transfer courses. GT SS1

## POS 280 Internship

3 credit hours
Prerequisite: POS 105 or POS 111 with a grade of B or better or Chair consent
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.

## PSM - PUBLIC SECURITY <br> MANAGEMENT COURSES

PSM 104 Introduction to Emergency Management
3 credit hours
Offers the student an orientation to the position of Emergency Manager; the requirements for emergency preparedness in the USA, an orientation to community disaster relief; basic incident
command systems, state disaster management, the role of emergency management in community preparedness, response and recovery, and the response to failure of infrastructure on individuals and communities.

## PSM 105 Crime and Forensics

3 credit hours
Examines the philosophical considerations of the integration of forensic science disciplines with criminal investigations. The course encompasses and provides an overview of physical evidence and examines the major forensic sub-disciplines of pathology, toxicology, deontology, anthropology, art, firearms and tool marks, criminalistics, serology, and questioned documents. The course provides an important base for the security management professional who may become the first responder in a crime scene.

## PSM 110 School Violence

3 credit hours
Provides an understanding of what leads to violence and the types of support that research has shown to be effective in preventing violence as a necessary tool for the security management professional. Preparing for a violent confrontation or the threat of physical harm is not an everyday occurrence. Although most schools are safe, the violence that occurs in our neighborhoods and communities has found its way inside the schoolhouse door.

## PSM 132 Homeland Defense: Forecasting Terrorism

3 credit hours
Examines the variety of new indicators, warning methodologies, and analytical tools available to analysts; review of the extensive academic, governmental, and policy literature on terrorism forecasting that has been developed to assess and forecast terrorism in its numerous dimensions. Students will comprehend the various analytical capabilities of the types of terrorist threats that are most likely to confront the USA and its allies in the near future, and predict how to develop proactive defenses for the long term protection of our society.

## PSM 133 Homeland Security: Chemical and Biological Defense

3 credit hours
Provides an overview of the radiological, chemical, biochemical, and biological threat to Homeland Security. Analysis of the agents and means of dissemination or attack that an adversary nation, group, or terrorist cell may employ to deliver these agents; review the current and projected means, techniques, and procedures for defense against such agents; review of theory and practices in chemical and biological threats to develop proactive defensive postures to defeat these threats.

## PSM 204 Terrorism, Intelligence, and Justice

3 credit hours
Provides the student with an interactive opportunity for students to develop enforcement strategies for investigating terrorism, intelligence gathering, and justice. The course will focus on the history and development of traditional and non-traditional
terrorist actors, cells, supporting countries, and homeland defensive methodologies for the security professional. The operational strategies of law enforcement in combating terrorism, including electronic surveillance, intelligence operations and covert operations will be discussed and applied in role-play situations.

## PSM 221 Forensic Computer Analysis: Computer

 Forensics I3 credit hours
Offers the student an overview of computer forensics, while discussing the different aspects of computers as it pertains to the forensic field, loss prevention, security management, and homeland security. Introduction to the legal aspects as it pertains to the search and seizure of computers and the effects of new legislation that changes our concepts of privacy and ownership.

## PSM 222 Forensic Computer Analysis: Computer Forensics II

3 credit hours
Prerequisite: PSM 221 with a grade of C or better
Provides the student with enhanced materials built on the foundations of PSM 221 - Computer Forensics I. Introduces and incorporates software used within the security industry to identify and locate evidence on a computer system. The procedures of computer seizure are reintroduced along with the proper guidelines of computer seizure.

## PSY - PSYCHOLOGY COURSES

PSY 101 General Psychology I: GT-SS3
3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning and memory. This course is one of the Statewide Guaranteed Transfer courses GT-SS3

## PSY 102 General Psychology II: GT-SS3

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, and social psychology. The course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## PSY 110 Career Development

3 credit hours
Assists students in recognizing their career potential, and provides tools for making realistic decisions concerning educational and occupational objectives.

## PSY 112 Psychology of Adjustment

3 credit hours
Prerequisite:ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Emphasizes personal growth and the development of interpersonal skills. Focuses on the practical ap-
plication of psychological principles and theories in achieving self-understanding and personal growth.

## PSY 200 Research Methodology

3 credit hours
Prerequisite: ENG 121 and MAT 060 with a grade of C or better Introduces research methods and designs including correlational studies, experimental designs and quasi-experimental designs. Additional topics include evaluations of scientific research, data analysis, report writing and research ethics.

## PSY 205 Psychology of Gender: GT-SS3

3 credit hours
Prerequisite: ENG 121 with a grade of $C$ or better
Examines gender comparisons in work, courtship, family life, and sexual behavior throughout the life span. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## PSY 207 Introduction Forensic Psychology

3 credit hours
Prerequisite: ENG 121 with a grade of C or better
Introduction to Forensic Psychology is a course in an overview of Forensic Psychology. As such, it explores both current research and practice in five areas. These areas are police psychology, criminal psychology, victimology, correctional psychology and the interface of psychology and the courts. The course facilitates an understanding of the numerous careers related to forensic psychology, how to prepare for them and current research and practice in each of the five broad areas of forensic psychology.

## PSY 217 Human Sexuality: GT-SS3

3 credit hours
Prerequisite: ENG 121 with a grade of C or better
Surveys physiological, psychological, and psychosocial aspects of human sexuality. Topics include relationships, sexual identity, and sexual health. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## PSY 226 Social Psychology: GT-SS3

3 credit hours
Prerequisite: ENG 121 with a grade of $C$ or better
Focuses on the behavior of humans in social settings, including attitudes, aggression, conformity, cooperation and competition, prejudice, and interpersonal attraction. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## PSY 227 Psychology of Death and Dying: GT-SS3

3 credit hours
Prerequisite: ENG 121 with a grade of C or better
Examines the philosophies of life and death, emphasizing dying, death, mourning, and the consideration of one's own death. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## PSY 231 Positive Psychology

## 3 credit hours

Prerequisite: ENG 121 with a grade of Cor better
Focuses on human strengths rather than the traditional view of psychology that tends to focus on the worst of human nature. This course is designed to explore strengths-based research, con-
cepts of happiness, helpfulness, and resiliency. The research and theories about human nature will go beyond simply not being mentally ill as a form of mental health, which will include optimism, posttraumatic growth, and how to increase emotional, psychological and social functioning. Overall, this course will be focused on understanding one's own sense of life satisfaction and how to further improve well-being.

## PSY 235 Human Growth and Development: GT-SS3

3 credit hours
Prerequisite: ENG 121 with grade of C or better
Examines human development from conception through death emphasizing physical, cognitive, emotional and psychosocial factors. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## PSY 238 Child Development: GT-SS3

3 credit hours
Prerequisite: ENG 121 with a grade of Cor better
Focuses on growth and development of the individual, from conception through childhood, emphasizing physical, cognitive, emotional, and psychosocial factors. The course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## PSY 240 Health Psychology: GT-SS3

3 credit hours
Prerequisite: ENG 121 with a grade of C or better
Students will learn an overview of the scientific study of attitudes, behaviors and personality variables related health, illness and bodily systems. Emphasis is on the interaction of biological, psychological and social factors that cause illness and influence its treatment and prevention. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## PSY 249 Abnormal Psychology: GT-SS3

3 credit hours
Prerequisite: ENG 121 and PSY 101 or PSY 102 with a grade of C or better
Examines abnormal behavior and its classifications, causes, treatment, and prevention. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## PSY 251 Introduction to Evolutionary Psychology

 3 credit hoursPrerequisite: ENG 121 and PSY 101 or PSY 102 with a grade of C or better
Introduces the principles of Natural Selection and applies them to Psychology and the study of human behavior. The course lays the framework for a biologically based approach to psychology and provides a metatheory for the discipline by examining current experimental data.

## PSY 258 Introduction to Neuropsychology

3 credit hours
Prerequisite: ENG 121 and PSY 101 with a grade of Cor better Focuses on introduction to basic neuropsychological terms and concepts with emphasis on application of thinking and behavior in humans.

## PSY 265 Psychology of Personality

3 credit hours
Prerequisite: ENG 121 and PSY 102 with a grade of C or better 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.

## PSY 268 Organizational Psychology

3 credit hours
Prerequisite: ENG 121 and PSY 101 or PSY 102 with a grade of Cor better
Provides a comprehensive study of psychological principles and theories as applied to organizational behavior. Topics include motivation, job satisfaction, conflict supervision, human relations, and stress management.

## PSY 269 Psychology of Leadership

3 credit hours
Prerequisite: ENG 121 and PSY 101 or PSY 102 with a grade of Cor better
Studies and applies the theories and techniques of leadership and group processes. In addition, introduces leadership skills and experiences with applications in group and community settings.

## PSY 275 Special Topics

0-12 credit hours
Prerequisite: ENG 121 with a grade of Cor better
Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

## PSY 285 Independent Study

$0-12$ credit hours
Prerequisite: ENG 121 with a grade of C or better
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor.

## REA - READING COURSES <br> REA 030 Basic Reading Skills

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum. 2 credit hours
Prerequisite: Reading assessment Score of 25-39
Students are encouraged to register for AAA 101, The Student Experience (1 credit hour)
Note: This course is not eligible for federal student aid. Focuses on strategies for word attack, vocabulary development, stages of reading and basic reading comprehension.

## REA 060 Foundations of Reading

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum. 3 credit hours
Prerequisite: REA 030 or ESL 043 with a grade of C or better, or Reading assessment score of 40-61
Students are encouraged to register for AAA 090, Academic Achievement Strategies.
Focuses on strategies for vocabulary development, improved reading comprehension, and enrichment.

## REA 077 Special Topics

0-12 credit hours
Provides students with a vehicle to pursue in-depth exploration of special topics of interest.

## REA 090 College Preparatory Reading

Note: Check for course description updates online at www.ccd.edu, 2013-2014 Catalog Addendum.
3 credit hours
Prerequisite: REA 060 with a grade of C or better, or Reading assessment score of 62-79
Enables the student to apply strategies for improving comprehension, developing vocabulary, and increasing rate for reading college textbooks.

## REA 130 Applied and Technical Reading

2 credit hours
Focuses on the appropriate reading strategies to understand technical, vocational and academic texts, manuals, professional journals and pleasure materials; to complete a task in the workplace; and to comprehend a new process.

## REA 151 College Reading

3 credit hours
Prerequisite: REA 090 with a grade of C or better, or Reading assessment score of $80-120$, or instructor permission
Covers information processing systems, analytical reasoning strategies, concept development and retention, and patterns of organization with emphasis on applying reading strategies to college expository text.

## REA 223 Critical Reading and Analysis

3 credit hours
Prerequisite: REA 090, or REA 151 with a grade of C or better, or Reading assessment score of 80-120, or instructor permission
Covers problem solving, goal setting, decision making, analyzing critical issues, constructing effective arguments, reasoning logically, organizing and interpreting visual perceptions, evaluating beliefs based upon experiences, and examining the symbolic nature of language. Emphasizes creating a learning environment where students are able to read and think both critically and creatively.

## REA 225 Exploring Diversity Issues

3 credit hours
Prerequisite: REA 151 or REA 223 with a grade of or better, or Reading assessment score of 80-120, or instructor permission
Assists students in developing diversity awareness. Emphasizes the strengths inherent in mastering a developmental framework for awareness and application of diversity-related concepts.

## RTE - RADIOLOGIC TECHNOLOGY COURSES

## RTE 101 Introduction to Radiography

2 credit hours
Prerequisites: BIO 201 and BIO 202,or BIO 106, ENG 121, HPR 178, MAT 099 or MAT 121 or higher, PSY 101 or SOC 101, or PSY 235
Offers an introduction to radiology including equipment, exposure, positioning and the knowledge necessary for the radiography student to provide safe patient care including communication skills,
body mechanics, patient transfer, and radiography as a profession.

## RTE 111 Radiographic Patient Care

2 credit hours
Prerequisites: BIO 201 and BIO 202,or BIO 106, ENG 121, HPR 178, MAT 099 or MAT 121 or higher, PSY 101 or SOC 101or PSY 235 and RTE 101.
Corequisites: RTE 121, RTE 141, RTE 181
Offers expansion of the information presented in RTE 101, including diversity, universal precautions, legal considerations and ethics. Includes lecture and laboratory experience in the patient care areas of asepsis, vital signs, venipuncture, medical emergencies, assistance with drug administration, patient with special needs, and death and dying.

## RTE 121 Radiologic Procedures I

3 credit hours
Prerequisites: BIO 201 and BIO 202,or BIO 106, ENG 121, HPR
178 , MAT 099 or MAT 121 or higher, PSY 101 or SOC 101,or PSY 235 and RTE 101.
Corequisites: RTE 111, RTE 141, RTE 181
Introduces fundamentals of radiographic positioning, including use of radiographic equipment and safety, positioning terminology, anatomy, pathology, and skills necessary to perform radiographic procedures of the chest, abdomen, upper extremity, gastrointestinal and urinary systems.

## RTE 122 Radiologic Procedures II

3 credit hours
Prerequisites: RTE 111, RTE 121, RTE 141 and RTE 181 Corequisites: RTE 131 RTE 132, RTE 142, RTE 182
Introduces additional material building on RTE 121 including the knowledge of anatomy, pathology, and skills necessary to perform radiographic procedures of the lower extremity, pelvis, spine, and boney thorax.

## RTE 131 Radiographic Pathology and Image

 Evaluation I1.5 credit hours

Prerequisites: RTE 111, RTE 121, RTE 141 and RTE 181
Corequisites: RTE 122, RTE 132, RTE 142, RTE 182
Provides a detailed anatomic discussion of the respiratory, digestive, and genitourinary systems and related medical terminology. This course will also cover the details of bony anatomy including the bone structure, pathology and arthrology.

## RTE 132 Radiographic Pathology and Image <br> Evaluation II

1.5 credit hours

Prerequisites: RTE 111, RTE 121, RTE 131, RTE 141 and RTE 181 Corequisites: RTE 122, RTE 142, RTE 182
Provides detailed anatomic/pathologic discussion of the spine, circulatory system, nervous system and skull and related medical terminology.

## RTE 141 Radiographic Equipment/Imaging I

3 credit hours
Prerequisites: BIO 201 and BIO 202,or BIO 106, ENG 121, HPR
178 , MAT 099 or MAT 121 or higher, PSY 101 or SOC 101,or PSY 235 and RTE 101.
Corequisites: RTE 111,RTE 121,RTE 181.
Introduces the fundamental aspects of radiographic equipment, including a basic review of physics
fundamentals pertaining to $X$-ray production, the $X$-ray machine, image receptors and control of scatter radiation.

## RTE 142 Radiographic Equipment/Imaging II

3 credit hours
Prerequisites: RTE 111, RTE 121,RTE 141 and RTE 181 Corequisites: RTE 122, RTE 131, RTE 182
Expands upon information covered in RTE 141 and provides in-depth knowledge of radiographic exposure technique, digital image processing, and fluoroscopy. In addition, the factors that affect image quality in digital and film/screen imaging, quality control, and quality assurance will be covered.

## RTE 181 Radiographic Internship I

5 credit hours
Prerequisites: BIO 106 or BIO 201 and BIO 202, ENG 121, HPR
178, MAT 099 or MAT 121 or higher, PSY 101 or SOC 101, or PSY 235 and RTE 101
Corequisites: RTE 111, RTE 121, RTE 141
Introduces the clinical education experience at the clinical education center. The student applies knowledge learned in the classroom to the actual practice of radiography.

## RTE 182 Radiographic Internship II

5 credit hours
Prerequisites: RTE 111, RTE 121, RTE 141, RTE 181
Corequisites: RTE 122, RTE 131, RTE 142
Introduces additional concepts and more complex radiographic procedures to those learned in Clinical Internshipl.

## RTE 183 Radiographic Internship III

7 credit hours
Prerequisites: RTE 111, RTE 121, RTE 122, RTE 131,RTE 141, RTE 142, RTE 181, RTE 182
Reinforces the basic concepts of Clinical Internship I and II.

## RTE 221 Advanced Medical Imaging

3 credit hours
Prerequisites: RTE 111, RTE 121, RTE 122, RTE 131, RTE 141, RTE 142, RTE 181, RTE 182, RTE 183
Corequisites: RTE 231, RTE 281
Introduces advanced imaging techniques including radiography of the cranium, facial bones and special radiographic procedures. These concepts are combined with the basic oral communication techniques necessary for the professional radiographer.

## RTE 231 Radiation Biology/Protection

2 credit hours
Prerequisites: RTE 111,RTE 121, RTE 122, RTE 131, RTE 141, RTE 142, RTE 181, RTE 182, RTE 183
Corequisites: RTE 221, RTE 282
Provides the basic knowledge and understanding of the biologic effects of ionizing radiation and radiation protection and safety.

## RTE 240 Principles of CT Imaging

3 credit hours
Prerequisite: ARRT or NMTCB Certified
Exploration of the history, physical principles and instrumentation involved in Computed Tomography (CT). CT image creation, processing and display will be examined from data acquisition through
post-processing and archiving. Patient factors and other related elements affecting image quality will be explained, as well artifact production and reduction. Radiation protection practices and quality control will also be explored.

## RTE 250 Mammography

3 credit hours
Prerequisite: ARRT Certified
Introduces the fundamentals of mammography as required for ARRT mammography certification.

## RTE 255 Multiplanar Sectional Imaging

2 credit hours
Prerequisite: ARRT or NMTCB Registered
Offers a course designed to increase knowledge in multi-planar/multi-modality sectional anatomy for imaging professionals, radiologic technology students, and other interested health care professionals. Correlative studies of line drawings, cadaverous photographs, MRI, and CT images are thoroughly studied.

## RTE 275 Special Topics

1-12 credits
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## RTE 281 Radiographic Internship IV

8 credit hours
Prerequisites: RTE 111, RTE 121, RTE 122, RTE 131, RTE 141, RTE 142, RTE 181, RTE 182, RTE 183
Corequisites: RTE 221, RTE 231
Introduces the student to the radiographic specialty areas of Pediatrics, Geriatrics, the out-patient clinic, as well as increasing proficiency in general radiography.

## RTE 282 Radiographic Clinical Internship V

8 credit hours
Prerequisites: RTE 111, RTE 121, RTE 122, RTE 131, RTE 141, RTE 142, RTE 181, RTE 182, RTE 183, RTE 221, RTE 231, RTE 281 Corequisite: RTE 132, RTE 289
Introduces the student to the radiographic specialty areas of pediatrics, geriatrics, the outpatient clinic, portable and trauma radiography as well as increasing proficiency in general radiography.

## RTE 284 Advanced Clinical (CT Clinical Internship)

1-12 credit hours
Prerequisite: ARRT or NMTCB Certified
Provides the student with supervised hands-on training in advanced field of medical imaging. Allows the student to gain the clinical experience necessary to work in the specified area of advanced practice.

## RTE 289 Radiographic Capstone

3 credit hours
Prerequisites: RTE 111, RTE 121, RTE 122, RTE 131, RTE 141, RTE 142, RTE 181, RTE 182, RTE 183, RTE 221, RTE 231, RTE 281 Corequisite: RTE 132, RTE 282
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.

## RTE 291 Mammography Internship

3 credit hours
Prerequisite: ARRT Certified
Provides clinical experience for demonstrating and documenting clinical competencies required by the American Registry of Radiologic Technologist for application for registry examination

## RTH - RADIATION THERAPY COURSES

## RTH 221 Principles of Radiation Therapy I

3 credit hours
Introduces the radiation therapy profession. Develops understanding of the principles of the cancer management team emphasizing patient care and assessment, detection and diagnosis, and imaging and processing. Introduces treatment machines and quality assurance fundamentals for treatment procedures.

## RTH 222 Principles of Radiation Therapy II

2 credit hours
Develops ability to think critically about therapist's role for continuous quality improvement in Radiation Oncology. Emphasizes the simulation process for localization of target and treatment volumes. Categorizes treatment machines, immobilization devices, and relates surface and sectional anatomy for simulation and treatment procedures.

## RTH 225 Oncology Pathophysiology

3 credits
Content is designed to introduce concepts related to the disease process. An emphasis on etiological considerations, neoplasia, and associated diseases in the radiation therapy patient.Explain principles of oncologic pathophysiology and the interactions of radiation with cancer cells, tissues and the body as a whole. Discussion of the theories and principles of tolerance dose, time-dose relationships, fractionation schemes and the relationship to the clinical practice of radiationtherapy will be discussed, examined and evaluated.

## RTH 242 Radiation Physics

3 credit hours
Presents radiation oncology physics as it is practiced in the clinic: structure of matter, nuclear transformations, production of $x$-rays and interactions, measurement of ionizing radiation and absorbed dose, quality of x-ray beams, radiation protection and brachytherapy.

## RTH 243 Oncology Principles and Practice

## 2 credit hours

Examines and evaluates the management of neoplastic disease applying concepts and principles of the patient condition, treatment and prognosis. Uses case studies to integrate physiology, histology, grading, and staging with treatment of anatomical regions and outcomes.

## RTH 244 Oncology Principle \& Practice II

2 credit hours
Examines and evaluates the management of neoplastic disease applying concepts and principles of the patient condition, treatment and prognosis. Uses case studies to integrate physiology, histology, grading, and staging with treatment of anatomical regions and outcomes.

## RTH 245 Portal Design I

3 credits
Simulate typical radiation therapy treatment portals designed for radiation therapy treatments. To include specific anatomy and primary routes of spread for sites where radiation is traditionally indicated in a patients treatment management for the following anatomic areas: Head \& Neck, Central Nervous System, Breast, Lung.

## RTH 246 Portal Design II

2 credits
Simulate typical radiation therapy treatment portals designed for radiation therapy treatments. To include specific anatomy and primary routes of spread for sites where radiation is traditionally indicated in a patients treatment management for the following : Gastrointestinal Cancers, Genitourinary Cancers, Gynecological Cancers.

## RTH 247 Portal Design III

2 credits
Simulate typical radiation therapy treatment portals designed for radiation therapy treatments. To include specific anatomy and primary routes of spread for sites where radiation is traditionally indicated in a patients treatment management for the following : Pediatric Cancers, Soft Tissue Sarcomas, Radiation Therapy Emergencies.

## RTH 261 Treatment Planning

3 credit hours
Analyses principles of multiple beam planning to determine dose distribution for specific anatomic sites. Applies complex dose calculations. Constructs and compares isodose distributions. Interprets and critiques treatment plans and brachytherapy procedures.

## RTH 281 Internship I

8 credit hours
Synthesizes the leadership skills required for patient care and management in simulation, treatment planning and delivery of treatment. The student completes core competency documentation. There will be a scheduled 2-hour lab time for the learner to use the computer for clinical assignments as needed.

## RTH 282 Internship II

8 credit hours
Synthesizes the leadership skills required for patient care and management in simulation, treatment planning and delivery of treatment. The student completes core competency documentation. There will be a scheduled 2-hour lab time for the learner to use the computer for clinical assignments as needed.

## RTH 283 Internship III

8 credit hour
Synthesizes the leadership skills required for patient care and management in simulation, treatment planning and delivery of treatment. The student continues core competency documentation and assists with a brachytherapy procedure. There will be a scheduled 2-hour lab time for the learner to use the computer for treatment planning assignments as needed.

## RTH 284 Internship IV

8 credit hours
Synthesizes the leadership skills required for patient care and management in simulation, treatment planning and delivery of treatment. The student completes core competency documentation. There will be a scheduled 2-hour lab time for the learner to use the computer for clinical assignments as needed.

## SCI - SCIENCE COURSES

## SCl 155 Integrated Science I-Physics and <br> Chemistry: GT-SC1

4 credit hours
Prerequisite: Designed for education majors. Grade of C or better in MAT 090, ENG 090 and REA 090 or Math assessment score of 61 (EA) or better, English assessment score of 95 or better and Reading assessment score of 80 or better
Course Note: This class is designed for students who are seeking an AA degree with an emphasis in education. Examines the nature of energy and matter, their interactions and changes, and the application of fundamental concepts to the study of our natural world. These concepts will be explored in hands-on laboratory experiments. This course integrates the fundamental concepts and ideas about the nature of physics and chemistry with the natural world. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## SCI 156 Integrated Science II - Earth and Life Science: GT-SC1

4 credit hours
Prerequisite: Designed for education majors. Grade of C or better in MAT 090, ENG 090 and REA 090 or Math assessment score of 61 (EA) or better, English assessment score of 95 or better and Reading assessment score of 80 or better Course Note: This class is designed for students who are seeking an AA degree with an emphasis in education. 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 course is one of the Statewide Guaranteed Transfer courses. GT-SC1

## SOC - SOCIOLOGY COURSES

SOC 101 Introduction to Sociology I: GT-SS3 3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines the basic concepts, theories, and principles of sociology as well as human culture, social groups, and the social issues of age, gender, class, and race. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## SOC 102 Introduction to Sociology II：GT－SS3

3 credit hours
Prerequisite：ENG 090 with a grade of C or better，or English assessment score of 95 or better，or equivalent ACT／SAT scores Examines social institutions and organizations from the macro perspective．Emphasizes issues of social change，demography，social movements， and conflicts and trends within education，reli－ gion，family，political，and economic structures． This course is one of the Statewide Guaranteed Transfer courses．GT－SS3

## SOC 201 Introduction to Gerontology

3 credit hours
Prerequisite：ENG 121 and SOC 101 or SOC 102 with a grade of Cor better
Acquaints students with the major issues and con－ cepts pertinent to the field of gerontology．The course introduces various theoretical perspectives on aging，the changing trends in life expectancy and other demographic considerations，and the interrelationship between elders and key social institutions．It provides an overview of physical， cognitive，and socioemotional factors associated with aging．

## SOC 203 Urban Socio－Anthropology

## 3 credit hours

Prerequisite：ENG 121 and ANT 101 or SOC 101 or SOC 102 with grade of Cor better
Examines how cities and city life are shaped by cultural，social，political，and economic forces op－ erating at many different levels．Additionally，SOC 203 examines the history and theoretical roots of urban anthropology and sociology，ethnographic fieldwork in urban environment，and urban social organization in cross－cultural perspectives．

## SOC 205 Sociology of Family Dynamics：GT－SS3

3 credit hours
Prerequisite：ENG 121 and SOC 101 or SOC 102 with grade of Corbetter
Develops an understanding of marriage，family and kinship．It examines the family as an institution and how social，cultural and personal factors influence family relations．The stability and diversity of the family will be explored，along with current trends and some alternative life styles．This course is one of the Statewide Guaranteed Transfer courses．GT－SS3

## SOC 207 Environmental Sociology：GT－SS3

3 credit hours
Prerequisite：ENG 121 and SOC 101 or SOC 102 with a grade of C or better
Examination of humans and the environment from an ecological perspective．Focuses on industrial and economic growth versus sustainability，natural resources development and management，environ－ mental values and social movements，and compar－ ative perspectives on people＇s relationship to the environment．Review of the＂Green＂movement and other environmental movements and their impacts upon social dynamics，the environment，and the evolution of social movements．This course is one of the Statewide Guaranteed Transfer courses．GT－SS3

## SOC 210 Technology and Society

3 credit hours
Prerequisite：ENG 121 and SOC 101 or SOC 102 with a grade of C or better
This course analyzes the relationship between tech－ nology and human society and culture；how tech－ nology has influenced the development of society and how social and cultural forces have influenced the development of technology．The course will ex－ amine both current and historical examples of key technologies and the ways their development and utilization have been contextualized by society and culture．In particular，the course will explore the im－ plications of living in a modern society defined by increasing dependence on complex technologies and rapid technological change．

## SOC 215 Contemporary Social Problems：GT－SS3

 3 credit hoursPrerequisite：ENG 121 and SOC 101 or SOC 102 with a grade of Cor better
Explores current social issues that result in societal problems．It focuses on such issues as civil liberties， gender discrimination，substance abuse，crime， poverty，and social change．This course is one of the Statewide Guaranteed Transfer courses．GT－SS3

## SOC 216 Sociology Of Gender：GT－SS3

3 credit hours
Prerequisite：ENG 121 and SOC 101 or SOC 102 with a grade of Cor better
Gives students the theoretical and factual back－ ground necessary to understand the phenomenon of gender stratification in American and other cul－ tures．Students will be exposed to a history of gen－ der stratification in human societies，theoretical explanations for this and insights into the conse－ quences of gender differentiation in our world to－ day．This course is one of the Statewide Guaranteed Transfer courses．GT－SS3

## SOC 218 Sociology of Diversity：GT－SS3

3 credit hours
Prerequisite：ENG 121 and SOC 101 or SOC 102 with a grade of Cor better
Explores the variety of intergroup relations re－ garding race，nationality，ethnicity，gender，sexual orientation，and other diversity issues．Patterns of prejudice，discrimination and possible solutions to these issues will be addressed．This course is one of the Statewide Guaranteed Transfer courses．GT－SS3

## SOC 220 Sociology of Religion：GT－SS3

3 credit hours
Prerequisite：ENG 121 and SOC 101 or SOC 102 with a grade of Cor better
Provides an introduction to the sociology of reli－ gion，including a comparative and critical examina－ tion of world religions，by focusing on sociological interpretation and explanation of the role of reli－ gion in human culture．The interaction between society and religion is thus examined as are a wide variety of religious beliefs and practices．This course is one of the Statewide Guaranteed Transfer cours－ es．GT－SS3

## SOC 223 Chicanos in a Changing Society

3 credit hours
Prerequisite：ENG 121 with a grade of C or better
Explores the lives and roles of Chicanos and Chica－ nas（Americans of Mexican descent）．It introduces students to the Chicano community，its historical， political and social development．It explores the ways in which Chicano communities interrelate with Anglo and multicultural societies as well as its future prospects．

## SOC 231 The Sociology of Deviant Behavior：GT－SS3 3 credit hours

Prerequisite：ENG 121 and SOC 101 or SOC 102 with a grade of Cor better
Examines the nature，identification，and explana－ tion of deviant categories．Theories，and philoso－ phies as well as methods of treatment related to deviancy will also be considered．The course will study society＇s attempts to control，change，and institutionalize those acts，individuals or groups that a population may deem unacceptable．This course is one of the Statewide Guaranteed Trans－ fer courses．GT－SS3

## SOC 237 Sociology of Death and Dying：GT－SS3

3 credit hours
Prerequisite：ENG 121 and ANT 101，or PSY 101，or PSY 102， or SOC 101 or SOC 102 with a grade of C or better
Provides an opportunity to familiarize students and professionals with the needs and issues sur－ rounding dying and death．This course will provide sociological，psychological，religious，historical and anthropological perspectives for interpreting contemporary American customs dealing with dy－ ing，death and bereavement．We will examine the professions associated with death and dying，such as hospice，funeral and crematory institutions，and medical care．This course is one of the Statewide Guaranteed Transfer courses．GT－SS3

## SOC 265 Violence and Culture

3 credit hours
Prerequisite：ENG 121 and ANT 101 or SOC 101 with a grade of Cor better
Examines the concepts，relationships，organiza－ tions，and research as they relate to violence in mul－ tiple cultural settings．This course assists in develop－ ing an understanding of societal and institutional causes of violence；explores resources for interven－ tion and treatment；and provides service learning applications in violence assessment，treatment，and victim assistance．

## SOC 275 Special Topics

0－12 credit hours
Prerequisite：ENG 121 with a grade of Cor better
Provides students with a vehicle to pursue in－depth exploration of special topics of interest．

## SOC 285 Independent Study

## $0-12$ credit hours

Prerequisite：ENG 121 with a grade of C or better
Meets the individual needs of students．Students engage in intensive study or research under the di－ rection of a qualified instructor．

## SPA - SPANISH COURSES <br> SPA 101 Conversational Spanish I

3 credit hours
Offers beginning students the skills necessary to understand and speak Spanish. The material includes basic vocabulary, grammar, and expressions that are used in daily situations and in travel.

## SPA 102 Conversational Spanish II

3 credit hours
Prerequisite: SPA 101 with a Cor better
Offers students the skills necessary to understand and speak Spanish. The material continues to cover basic conversations patterns, expressions, and grammar.

## SPA 111 Spanish Language I

5 credit hours
Develops students' interpretive, interpersonal, and presentational communicative abilities in the language. Integrates these skills in the cultural contexts in which the language is used. Offers a foundation in the analysis of culture.

## SPA 112 Spanish Language II

5 credit hours
Prerequisite: SPA 111 with a grade of C or better
Expands students' interpretive, interpersonal, and presentational communicative abilities in the language across the disciplines. Integrates these skills with the study of the cultures in which the language is used. Offers a foundation in the analysis of culture and develops intercultural communicative strategies.

## SPA 114 Fast Track Spanish I \& II

5 credit hours
Prerequisite: Spanish placement test with a score of 282 or better, and ENG 090 and REA 090 with a grade of C or better, or English assessment score of 95 or better and Reading assessment score of 80 or better, or equivalent ACT/SAT scores.
Course Note: This course is for students who have not taken SPA 111. If you are currently enrolled in SPA 111, you must enroll in SPA 112 for the next level of study.
Designed to bridge beginning SPA courses with intermediate SPA courses. It is designed for students who have studied two years of the target language in high school and possess linguistic and cultural knowledge that true beginners do not, but are not ready yet to move to the intermediate level because they need an in-depth review of essential structures.

## SPA 115 Spanish for the Professional I

3 credit hours
Prerequisite: SPA 111 or SPA 112 with a grade of C or better, or instructor consent
Designed as an introduction to a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and oters.

## SPA 211 Spanish Language III: GT-AH4

3 credit hours
Prerequisite: SPA 112 or SPA 114 with a grade of C or better, or instructor consent
Continues Spanish Language I and II in the development of increased functional proficiency in listening, speaking, reading and writing the Spanish language.
Note: The order of the topics and methodology will vary according to individual texts and instructors. This course is one of the Statewide Guaranteed Transfer courses. GT-AH4

## SPA 212 Spanish Language IV: GT-AH4

3 credit hours
Prerequisite: SPA 211 with a grade of C or better, or instructor consent
Continues Spanish Language I, II and III in the development of increased functional proficiency in listening, speaking, reading, and writing the Spanish language.
Note: The order of the topics and the methodology will vary according to individual texts and instructors. This course is one of the Statewide Guaranteed Transfer courses. GT-AH4

## SPA 215 Spanish for the Professional II

3 credit hours
Prerequisite: SPA 115 with a grade of C or better Continues SPA 115 in the development of a working knowledge of the target language, cultural behaviors and values useful in various professional fields such as health care, law enforcement, bilingual education, business, and others.

## SPA 261 Grammar for the Heritage Language Speaker <br> 3 credit hours <br> Prerequisite: Instructor consent

Provides formal grammatical instruction to Spanish Language students whether native or bilingual who want to develop their existing proficiency in the target language.

## SPA 262 Composition For The Heritage Language Speaker

3 credit hours
Prerequisite: Instructor consent
Provides formal composing instruction to Spanish Language students whether native or bilingual who want to develop their existing proficiency in the target language.

## SPA 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## SPA 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Meets the individual needs of students. Students engage in intensive study or research under the direction of a qualified instructor

## TEC - TECHNOLOGY COURSE <br> TEC 205 Geometric Dimensioning and

 Tolerancing3 credit hours
Prerequisite: EGT 160 with a grade of C or better or Chair consent
Enables students to interpret geometric dimensioning and tolerancing (GDT) in machining or drafting. The course covers math formulas, tolerancing systems, modifiers, symbols, datums, and tolerances of form, profile, orientation, runout, and location. Students learn the generation of a working drawing is a team effort between design, drafting, manufacturing, and quality control.

## THE - THEATRE COURSES

THE 105 Theatre Appreciation: GT-AH1
3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Includes discussions, workshops and lectures designed to discover, analyze and evaluate all aspects of the theatre experience: scripts, acting, directing, staging, history, criticism and theory. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## THE 106 Cross-Cultural Storytelling

4 credit hours
Offers international students and American students the opportunity to share ethnic/cultural experiences by using the theatre techniques of storytelling, improvisation, mime, verbal and non-verbal language, scripting and staging techniques resulting in performance projects.

## THE 108 Theatre Script Analysis

2 credit hours
This course introduces students to methods of reading and analyzing literature for the stage. In addition, students will apply staging and design concepts in visualizing and analyzing how a play looks, sounds and feels when produced.

## THE 110 Theatre in Denver

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Acquaints students with the range of theatre companies and productions in the Denver area. The itinerary is designed to provide the greatest variety of theatrical experiences within the logistical circumstances of a given semester's offerings. Accordingly, students will confront a broad spectrum of dramatic literature performed by various companies in distinct milieu.

## THE 111 Acting I

3 credit hours
Covers basic acting techniques and approaches including scene study, improvisation, and script analysis. It includes practical application through classroom performance.

## THE 112 Acting II

3 credit hours
Prerequisite: THE 111 with a grade of C or better
Continues to explore basic acting techniques and approaches including scene study, improvisation, and intermediate script analysis. It includes practical application through classroom performance.

## THE 115 Stage Movement for Actors

3 credit hours
Introduces the vocabulary of human movement, techniques of physical training, and anatomy and kinesiology for the actor. The course includes forms of basic dance and the coordination of movement with vocal delivery.

## THE 129 Introduction to the Entertainment Industry <br> 3 credit hours

Teaches the student an overview of what the Entertainment Industry is and what skill sets are required to enter this field.

## THE 131 Theatre Production I

3 credit hours
Prerequisite: Instructor consent
Allows students to put into practice theories of theatre production. Participation in set construction, scenic artistry, costuming, lighting, sound, acting, stage managing, and administration is available.

## THE 150 Comedy

3 credit hours
Helps students learn improvisation comedy skills, stand-up comedy skills for performance along with the business aspect of comedy. Students will learn the career and marketing end of putting together a show for performance.

## THE 151 Stagecraft I

3 credit hours
Focuses upon fundamental theories and construction of flats, platforms, stair units, soft scenery and other aspects of Stagecraft.

## THE 175 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Provides students with a vehicle to pursue in depth exploration of special topics of interest.

## THE 211 Development of Theatre Greek to Renaissance: GT-AH1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Surveys the history and evolution of drama from Ancient Greece to the Renaissance, emphasizing all aspects of the art from period values to analysis of dramatic literature and performance. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## THE 212 Development of Theatre Restoration to Modern: GT-AH1

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Surveys the history and evolution of drama from the Renaissance to the present, emphasizing all aspects of the art from period values to the analysis of dramatic literature and performance. This course is one of the Statewide Guaranteed Transfer courses. GT-AH1

## THE 215 Playwriting

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Gives students the opportunity to learn and practice playwriting techniques, thereby improving creative writing skills. Elements of dramatic structure, dialogue, styles and theatrical practices are emphasized.

## THE 218 Readers Theatre

3 credit hours
Studies ensemble interpretation of literature-poetry, prose, and drama, primarily through the medium of the spoken word.

## THE 220 Directing I

3 credit hours
Prerequisites: THE 105 and THE 111 or THE 215 with a grade of C or better
Covers basic techniques for stage directing in contemporary theatre. Topics to be covered include stage composition, script analysis, work with actors, and the collaborative role of the director.

## THE 240 Theatre Voice and Diction

3 credit hours
Provides students with individual tutorials which define, design and apply specific vocal techniques to abate singing and speech difficulties. Master class performances provide the opportunity to conjure the energy, charisma and stage command necessary for presentations.

## THE 275 Special Topics

$0-12$ credit hours
Prerequisite: Instructor consent
Explores current topics, issues and activities related to one or more aspects of the named discipline.

## THE 284 Internship: Theatre

$0-12$ credit hours
Prerequisite: Instructor consent
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.

## THE 285 Independent Study

$0-12$ credit hours
Prerequisite: Instructor consent
Emphasizes structured and guided, individualized research that is organized and tailored around the interests and needs of the individual student.

## VET - VETERINARY TECHNOLOGY COURSES

VET 106 Exotic Animal Husbandry and Handling
2 credit hours
Prerequisites: BIO 111, ENG 121 and admission into the Veterinary Technology program
Designed to provide students knowledge and skills required for veterinary technicians. This course focuses on exotic animal husbandry, handling, restraint and specific problems encountered with exotic animals.

## VET 108 Introduction to Laboratory Procedures

3 credit hours
Prerequisites: BIO 111, ENG 121 and admission into the Veterinary Technology program
Corequisites:VET 116, VET 120 and VET 205
Studies the biology, clinical appearance and laboratory diagnosis of parasitic diseases of veterinary and zoonotic importance.

## VET 109 Applied Comprehension Animal

## Behavior

3 credit hours
This course explores the topic of companion animal behavior through: critical reviews of behavioral literature and its implications for applied techniques in behavior, demonstrations of applied techniques for modifying animal behavior and the application of the principles of companion animal body posture and communication to everyday treatment of animals. Focuses on treatment of animals in veterinary practice, including improving handling techniques and safety.

## VET 115 Surgical Nursing

2 credit hours
Prerequisites: VET 108, VET 116, VET 205
Corequisites:VET 206, VET 224
Constructed for the student with limited background in veterinary medicine. The course expresses the need for familiarity with instruments, surgical support equipment, and proficiency in the proper preparation of the operating room.

## VET 116 Humane Treatment and Handling of Animals

3 credit hours
Prerequisite: Admission into the Veterinary Technology program
Corequisites:VET 108, VET 120 and VET 205
Designed to give students knowledge and skills required for veterinary technicians. The course focuses upon animal welfare and humane treatment during handling and restraint, behavior, safety, equipment choice, and typical clinical procedures.

## VET 120 Office Procedures and Relations

2 credit hours
Prerequisite: Admission into the Veterinary Technology program
Corequisites:VET 108, VET 116, VET 205
Presents commonly encountered clinical procedures with the emphasis on the role of the veterinary technician in the management of veterinary patients and records. The course also includes introduction to veterinary management software and on-line veterinary services.

## VET 134 Diagnostic Imaging

2 credit hours
Prerequisites:VET 108,VET 116,VET 205,VET 206
Corequisite: VET 187
Covers selected areas of diagnostic imaging with an emphasis on radiology. Topics will include radiation properties, x-ray production, radiographic equipment, darkroom procedures, the radiographic image, animal positioning and radiation safety. An introduction to special imaging techniques such as computed tomography (CT scan) and ultrasound will also be included.

## VET 182 Internship I

3 credit hours
Prerequisites:VET 108,VET 116,VET 120,VET 205
Corequisites:VET 115, VET 206, VET 224
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.

## VET 187 Cooperative Education: Diagnostic Imaging

1 credit hour
Prerequisite:VET 116, VET 205, VET 206
Corequisite: VET 134
Gains experience utilizing radiographic equipment, positioning of animals for radiographs, developing a technique chart and radiographic film. This is a 1 credit class which requires 45 contact hours in a private practice or research related facility.

## VET 205 Veterinary Anatomy and Physiology I

4 credit hours
Prerequisite: BIO 111, ENG 121 and admission into the Veterinary Technology program
Corequisite:VET 108,VET 116, VET 120
Provides background in the anatomy and physiology of animals. The class covers the structure and function of each body system, including skeletal, muscular, circulatory, integumentary, and respiratory. Other subjects include principles of metabolism and unique characteristics of common domestic species. Applied laboratory experiences are included.

## VET 206 Veterinary Anatomy and Physiology II

4 credit hours
Prerequisites:VET 108, VET 115 VET 205
Corequisites:VET 115, VET 182, VET 224
Provides additional detail in anatomy and physiology of companion and farm animal species. The class covers interrelationships between body systems including respiratory, cardiovascular, urogenital, and reproductive. Additional topics include metabolism and digestion, acid/base balance, neuroendocrinology, and reproductive endocrinology. Applied laboratory experiences are included.

## VET 224 Pharmacology for Veterinary

## Technicians

3 credit hours
Prerequisites:VET 108, VET 116, VET 205,VET 120, VET 206
Corequisites:VET 115, VET 182, VET 206
Provides background in pharmacology principles including topics such as: mechanism of drug action, types of drugs, anesthetic agents, pharmacy management and calculations related to drug dosages.

## VET 225 Anesthesiology

3 credit hours
Prerequisites:VET 108, VET 115, VET 116, VET 120, VET 182,
VET 205, VET 206, VET 224
Corequisites:VET 241, VET 281
Covers appropriate forms of injectable and gaseous anesthesia for surgical and diagnostic procedures. Other topics include anesthesia monitoring, emergency procedures, and control of post-surgical pain.

## VET 227 Animal Nutrition

2 credit hours
Prerequisite: Anatomy and Physiology course or graduation from an AVMA accredited school
Gives students a foundation in the principles of animal nutrition. The course focuses on the basic elements of nutrition including the major categories of nutrients, and their sources, digestion, and metabolism. Both large and small animal feeds and feeding will be covered. The course emphasizes the relationship between nutrition and health.

## VET 240 Veterinary Medicine and Surgery

4 credit hours
Prerequisites:VET 108, VET 115, VET 116, VET 120, VET 134, VET 182, VET 187, VET 205, VET 206, VET 224, VET 225, VET 227, VET 241 and VET 281
Corequisites:VET 242, VET 243 and VET 282
Presents commonly encountered medical and surgical conditions of the dog and cat with the emphasis on the role of the veterinary technician in the management of these entities. The course also includes special techniques laboratories in small animal medicine that provide a hands-on teaching experience in catheterization, collection of bone marrow aspirates, and centesis.

## VET 241 Clinical Laboratory Procedures

4 credit hours
Prerequisites: VET 205, VET 206
Corequisites:VET 225, VET 281
Discusses the biochemical derangements that characterize disease. Topics include proper collection and analysis of urine, blood, and cytological samples; basic principles of anatomic pathology; necropsy procedure and sample collection.

## VET 242 Veterinary Critical Care

2 credit hours
Corequisites:VET 240 , VET 241 , VET 281
Provides instruction in appropriate nursing assessment, monitoring and intervention with emergencies. Uses knowledge and understanding of overall anatomy, physiology, and disease or accident process to assist in veterinarian's diagnoses and treatment.

## VET 243 Veterinary Diagnostic Microbiology

3 credit hours
Prerequisites:VET 281,VET 225, VET 227, VET 241
Corequisites:VET 240, VET 242, VET 250, VET 282
Includes the biology, clinical appearance and laboratory diagnosis of bacterial and viral diseases of veterinary and zoonotic importance.

## VET 250 Clinical Competency Evaluation

1 credit hour
Prerequisites:VET 108, VET 115, VET 116, VET 120, VET 134, VET 182, VET 187, VET 205, VET 206, VET 224, VET 225, VET 227,VET 241 and VET 281
Corequisites:VET 242, VET 243 and VET 282
Evaluates the students' clinical skills and knowledge after successful completion of the internship courses, in order to prepare them for the national board examination and clinical practice. Evaluation of clinical skills and knowledge includes selected clinical laboratory techniques (parasitology, hematology, urinalysis, cytology, chemistry, serology, microbiology); diagnostic imaging; office procedures; surgical preparation, instrumentation and assistance; anesthesia induction, maintenance and monitoring; restraint and handling techniques; small, large and laboratory animal diagnostic and therapeutic techniques; and pharmacology calculations, labeling and drug classification.

## VET 281 Internship II

4 credit hours
Prerequisite:VET 182
Corequisites:VET 225, VET 227 and VET 241
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.

## VET 282 Internship III

5 credit hours
Prerequisites:VET 182, VET 281
Corequisites:VET 240, VET 242, VET 243
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.

## WEL - WELDING AND FABRICATION COURSES

## WEL 100 Safety for Welders

1 credit hour
Covers the hazards of welding on health and safety, locating essential safety information from a code or other standard, and identifying and applying shop safety procedures.

## WEL 101 Allied Cutting Processes

4 credit hours
Prerequisite:WEL 100 with a grade of C or better
Covers setting up equipment and performing cutting and gouging operations, utilizing the oxyacetylene, air carbon arc, exothermic, and plasma arc cutting processes. This course will also provide an introduction to blueprint reading.

## WEL 102 Oxyacetylene Joining Processes

4 credit hours
Prerequisite:WEL 100 with a grade of C or better Introduces safety inspections, minor repairs, operating parameters, oxyacetylene welding equipment, and oxyacetylene welding, brazing, and soldering operations. Blueprint reading skills will be practiced in this course.

## WEL 103 Basic Shielded Metal Arc I

4 credit hours
Prerequisite: WEL 101 with a grade of C or better
Covers performing safety inspections, making minor repairs, adjusting operating parameters, and operating SMAW equipment utilizing E-6010 electrodes. Layout procedures and practices will also be introduced.

## WEL 104 Basic Shielded Metal Arc II

4 credit hours
Prerequisite:WEL 103 with a grade of C or better
Covers performing safety inspections, making minor repairs, adjusting operating parameters, and operating SMAW equipment utilizing E-7018 electrodes. Layout procedures will be practiced during this class.

## WEL 106 Blueprint Reading for Welders and Fitters

4 credit hours
Covers interpreting weld symbols on blueprints, identifying proper layout methods and tools, and proper joint design necessary for various welding processes.

## WEL 110 Advanced Shielded Metal Arcl

4 credit hours
Prerequisite: WEL 104 with a grade of C or better
Covers safety inspections, minor repairs, operating parameters, operation of SMAW equipment, and SMAW operations on groove and fillet welds utilizing E-6010 and E-7018 electrodes. Layout procedures will be practiced during this course.

## WEL 111 Advanced Shielded Metal Arc II

## 4 credit hours

Prerequisite: WEL 110 with a grade of Cor better
Covers safety inspections, minor repairs, operating parameters, operation of SMAW equipment utilizing various electrodes, essential welding information from codes or other standards, and performance of weld inspections.

## WEL 124 Introduction to Gas Tungsten Arc Welding

4 credit hours
Prerequisites: WEL 101 and WEL 102 with a grade of C or better Covers welding in all positions and on various joint configurations using the GTAW (TIG) welding process on carbon steel, stainless steel and aluminum. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

## WEL 125 Introduction to Gas Metal Arc Welding

4 credit hours
Prerequisites: WEL 101 and WEL 102 with a grade of C or better
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 178 Special Topics Workshop: Welding Lab 1-6 credit hours
Prerequisite:WEL 101, WEL 102, and WEL 106 with a grade of C or better.
Corequisite: Any other welding class, exceptWEL 100, WEL 101, and WEL 102
Provides students with an experiential learning experience.

## WEL 202 Gas Metal Arc Welding II

4 credit hours
Prerequisite:WEL 125 with a grade of C or better
Covers safety inspections, minor repairs, operating parameters, operation of GMAW equipment, utilizing a variety of electrodes and base metals, and fundamental principles of welding metallurgy to welding, fabrication, and inspection.

## WEL 224 Advanced Gas Tungsten Arc Welding

4 credit hours
Prerequisite:WEL 124 with a grade of Cor better
Covers welding in all positions on carbon steel, stainless steel and aluminum plate and carbon steel pipe with the GTAW process. Student should be familiar with basic metallurgy pertaining to the weldability of metals, structural joints, and safety in the welding industry.

## WEL 230 Pipe Welding I

4 credit hours
Prerequisites: WEL 110 and WEL 124 with a grade of C or better, or Chair permission
Covers safety inspections, minor repairs, operating parameters, and operation of SMAW, GMAW, and FCAW equipment in a variety of positions on plain carbon steel pipe joints. Also covers evaluating and solving complex welding and fabrication problems and administering hands-on training and supervision of other students during assigned fabrication and welding operations.

## WST - WOMEN'S STUDIES COURSES

## WST 200 Introduction to Women's Studies: GT-

## SS3

3 credit hours
Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Examines the nature and function of women in society from an interdisciplinary perspective, focusing on the similarity and diversity of women's experience over time and across cultures. The course will examine topics such as sex role, socialization, political and philosophical perspectives on women's issues, and women's accomplishments in history, art, literature, science, health issues and the family. Students will gain an awareness of the limitations of traditional scholarship on women,
and gain a means of practical application of the new scholarship on women's roles and nature. This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

## WST 225 Women and Social Action: GT-SS3

## 3 credit hours

Prerequisite: ENG 090 with a grade of C or better, or English assessment score of 95 or better, or equivalent ACT/SAT scores Enables students to gain an understanding of the role of the systems of oppression in society and avenues available to them to create both individual and collective change through social action. Each student becomes aware of their ability to enact change and the empowerment that process provides. We will explore issues of diversity including, but not limited to race, class, gender, age and disability. The course emphasizes critical thinking skills and is informed by feminist pedagogy.This course is one of the Statewide Guaranteed Transfer courses. GT-SS3

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[^0]:    ${ }^{1}$ Degree names may vary according to institution. Please see a Program Advisor for more information.
    ${ }^{2}$ PLEASE NOTE: Degree tracks in "French for the Professions" and "French

